Waterbird Conservation Plan for the Mid-Atlantic/New England/Maritimes Region

Appendix 4—Conservation Projects

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Project ID#			
Ŗ	Region	Main Contact	Program/Project name
1	GoM	Linda Welch	Seabird Outreach and Education in the Gulf of Maine
2	GoM	Linda Welch	Alcid Restoration Project
3	GoM	Brad Allen	Acquisition of Nationally Significant Waterbird Nesting Islands
5	GoM GoM	Brad Allen Linda Welch	Razorbill Inventory and Monitoring
6	GoM	Linda Welch	Leach's Storm-Petrel Restoration and Monitoring Pelagic Bird Surveys in the Gulf of Maine
7	GoM	Linda Welch	Gulf of Maine Seabird Nesting Island Stewardship Program
8	GoM	Linda Welch	Tern Restoration Project in the Gulf of Maine
9	MidAtl	Barry Truitt	,
10	MidAtl	Barry Truitt	Colonial Waterbird Habitat and Productivity Enhancement Through Selective Predator Removals in Virginia
11	SNE-LI	Carol Trocki	Colonial Waterbird Disturbance Management Program Partnerships for Improved Waterbird Management in Narragansett Bay
12	SNE-LI	Jenny Dickson	Coastal Seabird/ Human Disturbance Campaign
13	MidAtl	Becky Harris	Seabird Ecological Assessment Network (SEANET)
14	GoM	Brad Allen	Land Acquisition/Seabird Restoration in Coastal Maine
15	GoM	Brad Allen	Great Spoon Island Inventory
16	GoM	Brad Allen	Little Libby Seabird Restoration Project
17	GoM	John Anderson	Black Guillemot Nesting Habitat Project
18	GoM	John Anderson	Gull Population Biology Project
19	GoM	John Anderson	Leach's Storm-Petrel Monitoring Project
20	GoM	Tom Hodgman	At-Sea Monitoring of Pelagic Waterbirds
21	GoM GoM	Tom Hodgman	Inventory of Inland Heronries
23	GoM	Tom Hodgman Tom Hodgman	Inland Waterbird Habitat Protection Analysis
24	GoM	Tom Hodgman	Regional Source/Sink Dynamics of Black Tern Populations Population and Habitat Ecology of Marshbirds in Maine
25	MidAtl	Doug Forsell	Development and Distribution of a Field Guide to Beached Birds (Dead) for the North Atlantic
26	MidAtl	Doug Forsell	Citizen Science Network for Beached Bird Surveys
27	MidAtl	Doug Forsell	Waterbird Bycatch: Assessment and Management for Elimination/Reduction to Minimal Levels
28	MidAtl	Doug Forsell	Pelagic Waterbird Distribution and Abundance Database
29	MidAtl	Doug Forsell	Verification and Completion of North Atlantic Coastal and Marine Waterbird Database
30	MidAtl	Doug Forsell	Mortality and Sub-lethal Effects of Offshore and Coastal Wind Power Facilities on Waterbirds
31	SNE-LI	Patrick Comins	Wading Bird Productivity
32	SNE-LI SNE-LI	Patrick Comins	Land Acquisitions to Protect Key Nesting Areas for Waterbirds in Connecticut
33	SNE-LI SNE-LI	Patrick Comins Patrick Comins	Inventory of Tern Foraging and Prey Resources
35	SNE-LI	Patrick Comins	Site Specific Conservation Planning at Important Waterbird Bird Areas in Connecticut Determination of Key Nesting Areas for Freshwater Wetland Nesting Birds
36	SNE-LI	Patrick Comins	Determination of Limiting Factors for Beach Nesting Waterbirds
37	SNE-LI	Patrick Comins	Public Education and Outreach for Colonially-nesting Waterbirds
38	SNE-LI	Patrick Comins	Correlation Between Nesting Colonies of Colonial Wading Birds and Foraging Areas
39	SNE-LI	Patrick Comins	Seasonal Waterbird Usage Inventory of Long Island Sound
40	SNE-LI	EJ McAdams	Coastal Waterbird Habitat Acquisition
41	SNE-LI	EJ McAdams	Harbor Heron Health & Monitoring Program
42	SNE-LI	EJ McAdams	Metapopulation Studies
43	SNE-LI	EJ McAdams	Pelagic Seabird Research Initiative
44	MidAtl MidAtl	Ruth Boettcher Ruth Boettcher	Public Education and Outreach for Colonial Nesting Waterbirds at Grandview Beach
46	MidAtl	Ruth Boettcher	Statewide Colonial Waterbird Surveys in Virginia Urban Waterbird Management Plan for Virginia's Coastal Plain
47	MidAtl	Ruth Boettcher	Developing a Comprehensive Waterbird Monitoring Plan for the Chesapeake Bay Estuary
48	MidAtl	Steering Committee	Increase Agency Capacity
49	MidAtl	Steering Committee	Aquaculture Impact Assessment
50	MidAtl	Steering Committee	Atlantic Wide Breeding Survey
51	MidAtl	Steering Committee	Best Management Practices Manual
52	MidAtl	Steering Committee	Contaminants Loads and Effects
53	MidAtl	Steering Committee	Disease Studies
54 55	MidAtl	Steering Committee	Foraging/Food-Chain Dynamics
55 56	MidAtl	Steering Committee	GIS System
56 57	MidAtl MidAtl	Steering Committee Steering Committee	Local Planning Patrixent Manitoring Database
58	MidAtl	Steering Committee	Patuxent Monitoring Database Evaluating the Impact of Hunting on Rails
59	MidAtl	Steering Committee	Marshbird Monitoring Program
60		-	no project
61	GoM	Chris DeSorbo	Filling Significant Baseline Data Gaps for Atlantic Red-throated Populations
62	GoM	Wing Goodale	Gulf of Maine Seabird Contaminant Assessment Network (GOMSCAN)
63	GoM	Wing Goodale	Loon Web Camera
64	Canada	Quebec's WB Plan	Seabird Monitoring in the Mingan Archipelago National Park Reserve and the Forillon National Park of Canada
65	Canada	Quebec's WB Plan	Seabird monitoring in the St. Lawrence Estuary, the Gaspé Peninsula and the Magdalen Islands

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Project ID			
Proj	Region	Main Contact	Program/Project name
66		Quebec's WB Plan	Monitoring of the Northern Gannet Population in the Gulf of St. Lawrence
67	Canada Canada	Quebec's WB Plan	Population Monitoring of the Ring-billed Gull in BCR 13 and 14
68	Canada	Quebec's WB Plan	Population Monitoring of the Nong-billed Guillin BCR 13 and 14
69	Canada	Quebec's WB Plan	Monitoring of Non-colonial Waterbirds in Quebec
70	Canada	Quebec's WB Plan	Monitoring Great Blue Heron Colonies in Quebec
71	Canada	Quebec's WB Plan	Canadian Lake Loon Survey
72	Canada	Quebec, BCR14	Marsh Monitoring Program Expansion to Quebec
73	Canada	Quebec's WB Plan	Recovery of Tern colonies of the Gulf of St. Lawrence
74	Canada	Quebec's WB Plan	Predator Control on Islands in Southeastern Canada
75	GoM	Steven Kress	Restoration and Management of Waterbird Nesting Sanctuaries on the Maine Coast
76	GoM	Steven Kress	Puffin Place
77	Canada	Daniel Brodage	Black Duck Joint Venture
78	Canada	Michael Robert	Species At Risk Program for Canada
79	Canada	Becky Whittam	Cape Breton Beached Bird Survey
80	GoM	Brad Allen	Isle au Haute Acquisition
81	GoM	Sandy Ritchie	Kennebec/Merrymeeting Bay (MMB) Acquisition
82	GoM Canada	Tom Hodgman	Cobscock Bay Acquisition
84	Canada	CWS - Quebec	St. Lawrence Estuary Acquisition Marchhird Top and Sharehird Protection in South Share Coope
85	Canada	CWS - Quebec	Marshbird, Tern and Shorebird Protection in South Shore Gaspe Magdalen Islands Acquisition and Management
86	Canada	CWS - Quebec Al Hanson	Magdalen Islands Acquisition and Management St. Lawrence Coast Acquisition and Stewardship
87	Canada	Andrew Boyne	St. Lawrence Coast Acquisition and Stewardship St. Margaret's Bay and Mahone Bay Island Acquisition and Stewardship
88	Canada	Brad Allen	Great Cormorant Monitoring in BCR 14
89	Canada	BCR 14 Plan	Seabird Colony Restoration in BCR 14
90	GoM	Tom Hodgman	Salt Marsh Monitoring Program in BCR 14
91	Canada	John Chardine	Seabird By-catch and Oil Spill Issues in BCR 14
92	Canada	Keith McAloney	Surveys of Birds Wintering in BCR 14
93	GoM	BCR 14 Plan	Coastal Ethics Outreach and Education
94	GoM	Scott Hall	Expand Marine Conservation Education in BCR 14
95	GoM	Linda Welch	Coastal Education Center
96	Canada	Al Hanson	Control Recreation and Development in BCR 14's Coastal Marshes
97	GoM	BCR14 Plan	Guidelines for Man-made Wetlands
98	GoM	BCR14 Plan	Guidelines for Beaver-created Wetlands
99	Canada	BCR14 Plan	Inventories of Inland Wetlands in BCR 14
100	Canada	BCR14 Plan	Standardized Inland Wetland Monitoring In BCR 14
101	Canada	BCR14 Plan	Inland Wetland Data Sharing in BCR 14
102	GoM MidAtl	BCR14 Plan	Coordination of Inland Wetland Conservation Efforts Between BCRs
103	MidAtl	Yigal Gelb	NYC Audubon's Harbor Herons Project: Nesting Survey
104	MidAtl	Yigal Gelb	The Healthy Harbor Herons Project NYC Audubon's Harbor Herons Monitoring Program
	SNE-LI,	Yigal Gelb	NYC Addubon's Harbor Herons Monitoring Program
106	GoM	National Audubon Society	Exploring the Cormorant Controversy
107	MidAtl	Manomet Center for Conservation	
108	MidAtl	Sciences	Mid-Atlantic Monitoring Database Expansion
108	GoM	Dave Jenkins Scott Hall	Habitat Creation and Restoration Stratten Island Research and Management
110	GoM	Scott Hall	Stratton Island Research and Management Little Duck Island Management
111	GoM	Scott Hall	Eastern Egg Rock Management
112	SNE-LI	Jenny Dickson	Nest Site Acquisition
113	MidAtl	Ruth Boettcher	Craney Island
114	MidAtl	Karen Bennett	Protection Incentives
115	MidAtl	Ruth Beck	Grandview Nature Preserve
116	MidAtl	Ruth Beck	Large Bird Population vs. Public Safety
117	MidAtl	Ruth Beck	Artificial vs. Natural Nest Site Use
118	SNE-LI	Dave Adams	New York Marshbird Monitoring Project
119	SNE-LI	Dave Adams	Marshbird Inventory
120	SNE-LI	Dave Adams	New York Loon Monitoring
121	SNE-LI	Dave Adams	Long Island South Shore Program
122	SNE-LI	Dave Adams	Lake Ontario Inventory
123	SNE-LI	Dave Adams	Tern Integration
124	SNE-LI	Sara Williams	Vegetation Management
125	MidAtl	State Non-Game Programs	State Outreach and Education
126	SNE-LI	Andrew MacLachlan	Eroded nesting sites
127	MidAtl	Dave Jenkins	Waterbird Focus Area Enhancement
128	MidAtl	Dave Brinker	Manage/Restore Wild Rice Habitat
129	SNE-LI	Min Huang	Productivity and monitoring of secretive wetlands birds in CT

1	Program/Project Name: Seabird Outreach and Ed Gulf of Maine	lucation in the Submitted by: Linda Welch		
Rationale: Public use and access to seabird nesting islands continues to increase along the coast of Maine. Unfortunately, these islands are used by a variety of nesting seabirds which are adversely				
affected by human disturbance and habitat alteration of the islands. A single visit to a seabird colony, during critical periods of the nesting cycle, can eliminate an entire year's production from a variety of species. There is a critical need to develop outreach material to assist recreational users of coastal islands and private landowners with decisions that affect seabird nesting islands. Objectives: Deliverables:				
J.D.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	 Universal Signage project: signs placed 		

Location: Coast-wide in Maine with effort to expand to Gulf of Maine

Develop and distribute "Living with Seabirds" guide that provides life history information, consequences of disturbance or habitat alteration, island ethics information, and recreational boater

Target Species: Roseate Tern, Arctic Tern, Common Tern, Razorbill, Black Guillemot, Atlantic Puffin, Leach's Storm-Petrel, Common Eider

Timeline: Immediate need, with project initiation planned for fall of 2004

Lead Organization: USFWS / MDIFW

Activity: Education and Management

Partner Organizations: NAS / MCHT/ Maine Island Trail/ ME Dept of Conservation / Acadia National Park / land trusts / Maine sea kayak guides association

Costs: \$45,000

concerns

Current Support: \$22,000 secured funding from USFWS and \$5,000 secured funding from Friends of Maine Seabird Nesting Islands

Unfunded: \$23,000 for completion of signage project and production & distribution of supporting educational materials

Potential Sources: MDIFW / MITA/ DOC / ANP / NAS

2	Program/Project Name: Alcid Restoration Proje	et	Submitted by: Linda Welch
Imp	lementation Priority:		Linda weich
azo	rres bred in the Gulf of Maine for the first time in or orbill populations and nesting habitat will likely inco on.		
Obj	jectives:	Deliver	rables:
	jectives: Increase number and geographic distribution of Alcid colonies	• Est	ablishment of three additional alcid onies in Maine, which would help
•	Increase number and geographic distribution of	• Est col sec	ablishment of three additional alcid
•	Increase number and geographic distribution of Alcid colonies	• Est col sec	ablishment of three additional alcid onies in Maine, which would help ure the long-term viability of these
	Increase number and geographic distribution of Alcid colonies Provide predator free nesting islands Increase breeding population of razorbills and	• Est col sec	ablishment of three additional alcid onies in Maine, which would help ure the long-term viability of these

Location: Penobscot Bay east to Canadian border (the	Target Species: Razorbill, Atlantic Puffin,
Gulf of Maine)	Common Murre, Black Guillemot
Timeline: Next 15 years	Lead Organization: USFWS / MDIFW /
·	NAS
Activity: Management	

Partner Organizations: To be determined

Costs: For each restoration project: \$10,000 for Year 1, with approximately \$7,500 each following year for staff and miscellaneous equipment

Current Support: To be determined

Unfunded: To be determined

in Maine

Potential Sources: To be determined

3	Program/Project Name: Acquisition of Nationally Significant Waterbird Nesting Islands		Submitted by: Brad Allen, Linda Welch
Imp	blementation Priority:		-
Rationale: There are over 4,616 islands along the Maine coast. Based on historical data, 616 islands have supported, or currently support, populations of seabirds, wading birds, waterfowl, or bald eagles Of these 616 islands, 377 were determined to be Nationally Significant based on a criteria developed USFWS, Maine Department of Inland Fisheries and Wildlife, TNC, and Maine Coast Heritage Trust. Fifty-three colonial nesting seabird islands are currently lacking permanent protection. For instance, Jordan's Delight is a spectacular seabird nesting island, with uncommon seabird diversity and is in cl proximity to USFWS refuge islands. All of these islands are currently threatened by development and uncontrolled recreational use.			ds, waterfowl, or bald eagles. based on a criteria developed by Maine Coast Heritage Trust. ent protection. For instance, seabird diversity and is in close
Obj	ectives:	Deliverables:	
•	Acquire 53 Nationally Significant colonial nesting seabird islands Permanently protect these islands from development and enforce seasonal closures to protect nesting seabirds Evaluate potential of each protected island as a tern or alcid restoration site	Nationally	ion ownership of 53 remaining Significant Seabird Nesting nich now lack permanent
Loc	ration: Maine (coast-wide)	Common Tern Atlantic Puffir	es: Roseate Tern, Arctic Tern, n, Razorbill, Black Guillemot, n, Leach's Storm-Petrel, Great Gull, Herring Gull, Laughing
Tin	neline: Next 15 years	Lead Organiz	zation: USFWS
Act	ivity: Management, Aquisition	-	
	tner Organizations: MDIFW, National Audubon Sonservancy, and various land trusts from across the state	•	past Heritage Trust, The Nature
Cos	ts: \$9,466,000		
Cur	rent Support:		
Unf	unded:		

Potential Sources: Land and Water Conservation Fund, local land trusts

	Program/Project Name: Razorbill Inventory and I		
4		Brad Allen,	
		Linda Welch	
lmj	plementation Priority:		
Rationale: Razorbills are listed as a threatened species in Maine, and an estimated 350 pairs curnest on six islands. Although all six islands are under conservation ownership, only three islands staffed by seasonal technicians that manage predators and limit disturbance to the colony. Two managed sites (Petit Manan and Seal Islands) only support one pair of razorbills each. Informati population size and productivity parameters is lacking on the three "unmanaged" colonies. As a no current information is available on the status or health of approximately 50% of the statewide population estimate for the species.		nservation ownership, only three islands are d limit disturbance to the colony. Two of these ort one pair of razorbills each. Information on a the three "unmanaged" colonies. As a result,	
Ob	jectives:	Deliverables:	
•	Develop standardized survey methods for	Accurate count of Maine's Razorbill	
•	monitoring razorbill colonies, that would allow for		
	accurate population estimates and collection of	population	
	productivity data	Establishment of standardized survey	
		techniques	
•	Identify factors that may be limiting population	-	
	growth or productivity		
•	Evaluate habitat characteristics of occupied		
	Razorbill habitat, which will assist managers in selecting potential restoration sites		
	selecting potential restoration sites		
	eation: Old Man Island, Freeman Rock, Pulpit ek, Matinicus Rock, Petit Manan, and Seal Islands	Target Species: Razorbill	
Koc	ck, Matinicus Rock, Petit Manan, and Sear Islands		
Tin	neline: Immediate; over next 15-years	Lead Organization: USFWS / MDIFW /	
	•	NAS	
Act	ivity: Research and Monitoring		
Par	tner Organizations: To be determined		
Cos	sts: \$25,000		
Cui	rrent Support:		
Unf	funded:		
Pot	ential Sources: To be determined		

_	Program/Project Name: Leach's Storm-Petrel Restoration and	Submitted by:
3	Monitoring	Linda Welch

Rationale: Within Maine, Leach's Storm-Petrels nest on approximately 35 islands. Two islands located less than two miles apart currently support over 75% of the population. As a result, the potential for a single catastrophic event or disease to significantly affect Maine's Leach's Storm-Petrel population is a major concern. Additional colonies need to be established, and habitat could be enhanced on other islands to facilitate population growth at existing colonies. Leach's Storm-Petrels are burrow nesters, and are generally only active in the evening, making census work very challenging. Standardized survey methods that would allow managers to monitor the status and productivity of numerous colonies in a particular season are needed.

Objectives: Deliverables:				
Objectives:	Denverables:			
Develop standardized survey methods for monitoring petrel colonies	Standardized survey methods for monitoring petrel colonies			
• Increase Maine population of Leach's storm-petrels by 20% over 2000 level	Statewide population estimates, and confirmation of occupation of historical breeding islands			
 Increase the number of islands supporting nesting Leach's Storm-Petrels (and increase the number of islands supporting over 100 pairs of petrels) Maintain at least two islands supporting over 3,000 pairs of petrels 	Establishment of additional petrel colonies, and enhanced population size on existing colonies resulting in an increase in Maine's population of petrels			
 Enhance nesting habitat on petrel nesting islands, particularly those with existing gull control programs 				
Location: Maine	Target Species: Leach's Storm-Petrel			
Timeline: Within the next 10 years (immediate potential)	Lead Organization: USFWS / MDIFW / NAS			
Activity: Research and Management				
Partner Organizations: To be determined				
Costs: To be determined				
Current Support:				
Unfunded:				
Potential Sources: USFWS & MDIFW				

6	Program/Project Name: Pelagic Bird Surveys in the Gulf of	Submitted by:
U	Maine	Linda Welch

Rationale: The last pelagic bird surveys conducted in the Gulf of Maine occurred over 20 years ago. The effort in 1983 included 26 months of observation, with observations recorded on 61 cruises. Current information on the distribution of pelagic species, the number of species present, seasonal variation, and the number of individuals of each species is needed by both managers and policy makers throughout the Gulf of Maine. Pelagic species face potential threats from oil spills, commercial fishing efforts, and global climate change. Considerable effort has been spent acquiring and protecting breeding habitat for species such as razorbills and puffins, yet information on pelagic habitat use is lacking. This lack of information precludes the ability to evaluate the causes or location of over-winter mortality for these State threatened species.

Objectives:	Deliverables:
 Develop methodologies and conduct standardized surveys for pelagic species utilizing the Gulf of Maine Identify and map species distributions, and locations of "critical" foraging areas Utilize existing oceanographic monitoring efforts of NMFS and NOAA, research vessels, and US Coast Guard to minimize survey costs Develop cooperative agreements with tour boat 	 Establishment of standardized survey methods Report summarizing results of survey (species present, numbers, and distribution)
operators to collect data on pelagic species observed during routine trips	
Location: Gulf of Maine	Target Species: Leach's Storm-Petrel, Wilson's Storm-Petrel, Northern Gannett, Audubon's Shearwater, Cory's Shearwater, Greater Shearwater, Manx Shearwater, Sooty Shearwater, Long-tailed Jaeger, Parasitic Jaeger, Pomarine Jaeger, Razorbill, Black Guillemot, Atlantic Puffin, Common Murre, Dovekie, Thick-billed Murre
Timeline: To be determined	Lead Organization:
Activity: Monitoring and Research	
Partner Organizations: USFWS / CWS / MDIFW	/ NAS
Costs: To be determined	
Current Support:	
Unfunded:	
Potential Sources: Partners listed above	

7	Program/Project Name: Gulf of Maine Seabird Nesting Island	Submitted by:		
′	Stewardship Program	Linda Welch		
T	Innlamentation Delouites			

Rationale: Within Maine, 53 Nationally Significant seabird nesting islands, and hundreds of other islands which currently support nesting seabirds, are privately owned. Island owners are faced with many difficult choices concerning best management practices, disturbance issues, financial concerns, habitat management, and predator control. There is a tremendous need to have a coordinated "conservation—based" outreach effort focused on these privately owned islands. This Stewardship effort would provide dedicated staff to assist landowners with their land management decisions, resulting in direct conservation benefit to numerous species of seabirds.

Objectives:	Deliverables:			
 Promote conservation-based management of privately owned seabird nesting islands Develop "island specific" management plans, including seabird census, habitat evaluation, and threat assessment Increase public awareness of issues affecting nesting seabirds 	 Variety of outreach materials designed and produced specifically for private landowners Management plans for individual islands 			
Location: Maine (coastwide)	Target Species: Common Tern, Roseate Tern, Arctic Tern, Black Guillemot, Leach's Storm-Petrel			
Timeline: Immediately	Lead Organization: USFWS			
Activity: Education				
Partner Organizations: MDIFW / NAS / MCHT / TNC / various land trusts				
Costs: \$70,000 / year				
Current Support:				
Unfunded:				
Potential Sources: To be determined				

8 Program/Project Name: Tern Restoration Project Maine	in the Gulf of Submitted by: Linda Welch		
Implementation Priority:			
Rationale: Despite significant progress over the past 20 years toward the recovery of Common, Arctic and Roseate Terns in the Gulf of Maine, additional colonies need to be established. Currently in Maine over 75% of the terns are nesting on five islands. Fewer than 5% of Common and Arctic Terns current nest on an island that is not actively managed by one of the members of the Gulf of Maine Seabird Working Group (i.e. seasonal technicians controlling predators). Over 95% of the endangered Roseate Terns are nesting on two islands, and the 2004 population total for Maine Roseate Terns is 30% lower than in 2003 (60% lower than 2002). The USFWS Recovery Plan for Roseate Terns has a goal of six colonies supporting over 200 pairs of roseates. The largest colony in Maine now supports 109 pairs of roseates.			
Objectives:	Deliverables:		
• Establish six additional tern restoration projects in Maine	Establishment of six additional tern restoration projects.		
• Increase the geographic distribution of tern colonies in Maine	Minimized potential for catastrophic events at a particular island from adversely affecting a significant		
 Achieve and maintain a productivity level of 1.0 fledged young / pair 	percentage of the population		
• Reduce or eliminate predation on the managed tern colonies			
Location: Coast of Maine (initial emphasis on downeast region and Blue Hill Bay area)	Target Species: Common Tern, Arctic Ter Roseate Tern, with potential for Razorbill, Atlantic Puffin, Black Guillemot, Leach's Storm-Petrel		
Timeline: Over the next 15 years	Lead Organization: USFWS / NAS / MDIFW		
Activity: Management			
Partner Organizations: To be determined			
Costs: For each restoration project: \$10,000 in Year 1 for staff and equipment, with approximate cost of \$7,500 each year following			
Current Support:			

Unfunded:

Potential Sources: To be determined

Program/Project Name: Colonial Waterbird Habitat and Productivity
Enhancement Through Selective Predator Removals in Virginia

Submitted by:
Barry Truitt

Implementation Priority:

Rationale: In response to a well documented increase in invasive raccoon and introduced red fox populations on the Virginia barrier islands and a corresponding decrease in nesting colonial waterbird and shorebird populations, The Nature Conservancy initiated a program of research and selective predator management in 1999. The initial focus was expanded in 2004 to include waterfowl and marsh species, resulting in an overall all-bird approach. Predator removals on selective islands are conducted by USDA/WS. Research efforts to date have included quarterly predator track surveys, mark-and-release studies, telemetry, translocations, artificial nest studies and DNA analysis to identify predator movements and pathways, and field evaluations of control options. Piping Ployer and American Oystercatcher productivity and colonial waterbird nesting surveys on the islands have been used as measures of success. This research has shown that selective predator control is a viable option to enhance shorebird, waterfowl, and colonial waterbird habitat and productivity on the barrier islands. While continuing the program of extensive monitoring of predator distribution and abundance, selective removals, and waterfowl and shorebird productivity monitoring, we would now like to incorporate colonial waterbird productivity studies. The VA barrier island system hosts nearly 75% of the breeding colonial waterbirds in the coastal plain of VA. We would also like to conduct a field test of a remaining non-lethal management technique, conditioned taste avoidance (CTA). The VA barrier islands represent the ideal conditions for testing the utility of CTA of bird eggs as a tool for reducing predator impact on colonial waterbird productivity through behavior modification. DNA analysis to date has identified three major pathways that both raccoon and red fox use to access the islands from expanding populations on the mainland. This raises the question of the long term sustainability of the removal program (i.e. removals will need to be on-going and annual).

Objectives:

- Continue partnership approach to deal with predator impacts on breeding birds
- Continue program of selective predator removals
- Continue monitoring program of predator distribution and abundance
- Assess CTA as a viable non-lethal management technique
- Begin program of seasonal colonial waterbird surveys and productivity monitoring on the islands as a measure of success (one .5 FTE)
- Work with USDA/WS and others to fund WS staff position dedicated to the Eastern Shore
- Assess program sustainability (how to get biggest bang for the buck)

Deliverables:

- Seasonal colonial waterbird surveys coupled with selective, comprehensive productivity studies
- Seasonal reports on predator removals.
- Annual report on predator distribution and abundance (quarterly surveys)
- Assessment of CTA as non-lethal management tool
- Develop specific recommendations to address program sustainability

Location: Virginia barrier islands

Target Species: Black Skimmer, Least Tern,
Common Tern, Royal Tern, Shorebirds, Waterfowl
Timeline: Initiated 1999; on-going

Lead Organization: Nature Conservancy/
Virginia Coast Reserve

Activity: Management, Monitoring and Research

Partner Organizations: Major: USFWS, USDA Wildlife Services, VA Department of Game & Inland Fisheries, VA Museum of Natural History, Utah State University, College of William & Mary (Center for Conservation Biology), Delta Waterfowl, Nature Conservancy/Virginia Coast Reserve. Minor: USDA Natural Resources Conservation Service, VA Department of Conservation & Recreation (Division of Natural Heritage), VA Department of Environmental Quality (Coastal Resource Management Program).

Costs: 2005: Mammal Research \$50K, Predator Removal \$50K, CW Bird Productivity Monitoring \$35K Current Support: 2004: Mammal Research - \$20K from DEQ/CRM, \$52K from TNC; Predator Removals - \$10K from NRCS/WHIP, \$40K from TNC; CW Bird Productivity Monitoring - \$0

Unfunded: All 2005 costs

Potential Sources: State Wildlife Grant, DEQ/CRM, NRCS/WHIP, Private Lands Stewardship Grant?

10	Program/Project Name: Colonial Waterbird Disturbance	Submitted by:
10	Management Program	Barry Truitt

Rationale: The Virginia Eastern Shore is poised to undergo a rapid increase in high density residential and second home development with a whole new fleet of boats and largely unaware island visitors headed to the barrier island beaches for recreation. In addition, eco-tourism is rapidly developing and uncontrolled at present. The result is annual increases in the number of island visitors during the breeding season of both beach nesting shorebirds and colonial waterbirds. The Virginia barrier island system annually hosts nearly 75% of the breeding colonial waterbirds found on the coastal plain of Virginia. The partners in the VA Coastal Avian Partnership (USFWS, VDGIF, USGS/PWRC, TNC, DCR/Natural Heritage, avian researchers, etc.) have agreed to meet during the winter of 2004 to discuss a coordinated approach to island visitation and prevention/reduction of impacts to birds from humans (and their dogs) on all the islands under their respective control. Education and outreach efforts targeted at island visitors and other stakeholders need to be developed and implemented before disturbance and violations occur. Capacity needs to be developed for posting, patrol, enforcement, and education.

Objectives:				
•	Collaborate (multi-agency) to assess risks to			
	breeding colonial waterbirds from human			
	disturbance			

- Develop policies to reduce/ eliminate impacts
- Identify high risk colony sites
- Develop capacity to post, protect, and patrol nesting and roost sites
- Develop outreach materials to inform island visitors and other stakeholders

Deliverables:

- Risk assessment and policies to reduce/eliminate impacts from human disturbance
- Increased capacity to post, protect, and patrol nesting colonial waterbirds
- Outreach materials (i.e. brochures) to be used in stakeholder education

Location: The Virginia barrier islands (TNC, USFWS, DCR, and VDGIF ownership)

Target Species: Black Skimmer, Least Tern, Common Tern, Royal Tern, Gull-billed Tern, Piping Plover, American Oystercatcher, Wilson's Plover

Timeline: Annual and on-going

Lead Organization: The Nature Conservancy/Virginia Coast Reserve

Activity: Management and Education

Partner Organizations: U.S. Fish & Wildlife Service, VA Department of Game & Inland Fisheries, VA Department of Conservation & Recreation, VA Department of Environmental Quality/Coastal Resource Management Program, USGS/PWRC, College of William & Mary/Center for Conservation Biology, University of VA-VCR/LTER, other academic researchers

Costs: \$50K/year including salaries and benefits (one .5 FTE to be shared with one .5 FTE to monitor productivity under the selective removal program), equipment, boat and other travel, educational and outreach materials, etc.

Current Support: None

Unfunded: \$50K

Potential Sources: State Wildlife Grant, DEQ/CRM program, private donations

Program/Project Name: Partnerships for Improved		d Waterbird	Submitted by:	
Management in Narragansett Bay		Carol Trocki		
		Andrew MacLachlan		
Implementation Priority:				
and a	onale: There exists a strong desire to maintain a 25- n need to balance public access with nesting habitat reportunity to raise awareness of Narragansett Bay res	nanagement. Tl		
Obje	ectives:	Deliverables:		
r	Describe current management efforts on NB nesting islands;		chensive plan for ent, monitoring, and treach	
	Discuss best management practices & resources needed;	organizati	k of collaborating ons working toward	
	Develop a plan to implement comprehensive nanagement strategy on State-owned Islands;	waterbird conservation	conservation	
	dentify priorities for monitoring, management, and public outreach.			
Loca	tion: Narragansett Bay, Rhode Island	Little Blue He Black-crowne Egret, Great E	es: Great Blue Heron, eron, Green Heron, ed Night-Heron, Cattle Egret, Snowy Egret, Grea Gull, Herring Gull, ed Cormorant	
Timeline: 2005-7 Activity: Management and Education		Lead Organia Lighthouse Fo	zation: Rose Island oundation?	
Envi	ner Organizations: Narragansett Bay Estuary Progronmental Management, Narragansett Bay National ety of Rhode Island, US Fish and Wildlife Service, US	Estuarine Resea	arch Reserve, Audubon	
Cost	s: To be determined			
Curi	rent Support: None			
T T C.	ınded:		_	

Program/Project Name: Coastal Seabird/ Human Disturbance Campaign		Submitted by: Jenny Dickson	
Implementation Priority:			
Rationale: Disturbance of nesting sites is a lim waterbirds are concentrated in coastal resource various other factors.			
 Objectives: Determine what type and level of recreation is compatible with beach nesting Develop and implement an outreach program to encourage recreational sharing of the beach with coastal seabirds Train local stewards 	Educational mater	blic Service Announcements	
Location: Southern New England/Long Island Sound	Double-crested Cormo	k Skimmer, Common Tern, orant, Foster's Tern, Great ull-billed Tern, Herring Gull, Tern, Roseate Tern	
Timeline: 2005 - 2007	Lead Organization:		
Activity: Education and Management	Activity: Education and Management		
Partner Organizations: States; NGOs			
Costs: Interns; overall cost to be determined			
Current Support:			
Unfunded:			
Potential Sources: States; NGOs; foundations	; USFWS		

1.7	
(SEANET) Becky Harris	

Rationale: Beached bird surveys involve students and the public in data collection on baseline mortality of marine and coastal birds, as well as detecting unusual mass mortality events. Chronic oiling is a threat to seabirds in Atlantic Canada, but this risk to birds in the eastern US has not been assessed. Other threats can be evaluated, such as harmful algal blooms, contaminant distribution at a high trophic level, entanglement and marine debris ingestion, and disease incidence. The inclusion of fisheries bycatch analysis and pelagic population information will contribute to the identification of priority management issues. The planned distributed internet mapping system will enable managers, researchers, and the public to access geographic and temporal data on seabird mortality, population distribution, and underlying threats.

Objectives:	Deliverables:
 Develop standardized volunteer-based beached bird survey (monitoring mortality) Develop a distributed Internet database and mapping application Monitor seabird bycatch in fisheries operations, collecting specimens obtained by fisheries observers to develop a standard pathology for these birds, and analyze samples for baseline contaminants and disease information 	Beached bird inventory Internet database and mapping application, which will provide a comprehensive and integrated source allowing users to correlate multiple environmental variables and risk factors with population fluctuations and mortality events
Location: Northeastern US coast and Atlantic Canada (Delaware Bay north; could be expanded southward in the future)	Target Species: seabirds, waterfowl, shorebirds
Timeline: Initiated fall 2002; long-term	Lead Organization: Tufts University
Activity: Monitoring, Research and Education	

Partner Organizations: Maine Audubon and chapters, ReMaine Wild, Maine Department of Inland Fisheries and Wildlife, Quebec Labrador Foundation, New Hampshire Nongame and Endangered Wildlife Program, National Audubon Society Seabird Restoration Project, Lloyd Center for Environmental Studies, Manomet Center for Conservation Sciences, Massachusetts Audubon Society, Massachusetts Division of Fisheries and Wildlife, MA Bird Observer, Cape Wildlife Center, Wild Care, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, National Marine Fisheries Service, National Biological Information Infrastructure, U.S. Geological Survey, U.S. National Park Service, MA Dept. of Coastal Zone Management, The Nature Conservancy, Connecticut Audubon Society, Bird Studies Canada, Environment Canada, Wildlife Trust, Volunteers for Wildlife, New Jersey Audubon Society, Cape May Bird Observatory, Stockton State College, The Wetlands Institute, Rutgers University, New Jersey Division of Fish and Wildlife, Wild Wings Wildlife Rehabilitation Center, TriState Bird Research and Rescue, Inc., NY State Department of Environmental Conservation, Wildlife Rescue Center of the Hamptons, Riverhead Foundation for Marine Research and Preservation, Coastal Research and Education Society of Long Island, NY State Parks Department, NY State Office of Parks, Recreation, and Historic Preservation, NY City Parks Department, NY City Audubon Society

Costs: \$254,750 total project cost per year

Current Support: fall 2004 - fall 2005: NOAA Coastal Services Center GIS Integration & Development grant \$82,226 and \$45,000 remaining from National Fish and Wildlife Foundation = \$127,226 (Current Support through fall 2004: Geraldine R. Dodge Foundation \$49,100 and Lynn Trayser Mitchell Memorial Bird Fund \$14,000)

Unfunded: \$127,524 (fall 2004 – fall 2005)

Potential Sources: State Wildlife Grant, NSF – Research Communication Network

14	Program/Project Name: Land Acquisition/Seabird Coastal Maine	Restoration in	Submitted by: Brad Allen		
Imp	Implementation Priority:				
	ionale: The island is both privately owned and unprotent, as well as nesting eiders.	ected. There is a	a large petrel colony on the		
Ohi	Objectives: Deliverables:				
J	Tern restoration		y protected critical nesting		
	Land acquisition	habitats	y protected errical nesting		
Loc	ation: Wooden Ball Island, Maine		Black Guillemot, Herring Gull, Petrel, Great Black-backed Gull, ommon Eider		
Tim	eline: To be determined	Lead Organiza Fisheries & Wi	ation: Maine Department Inland		
Acti	vity: Research and Acquisition				
Partner Organizations: USFWS, Maine Coast Heritage Trust, National Audubon, others					
Costs: To be determined					
Current Support:					
Unfunded:					
Pote	ential Sources: To be determined				

15	Program/Project Name: Great Spoon Island Inventory		Submitted by: Brad Allen	
Imp	olementation Priority:			
	ionale: Great Spoon Island is one of the few tern island lators.	nds without ter	n researchers managing	
Obj	ectives:	Deliverables	:	
•	Inventory	• The asses seabirds	essment of abundance of nesting	
Loc	ation: Great Spoon Island, Maine	Leach's Stori	es: Arctic Tern, Common Tern, m-Petrel, Razorbill, Great Common Eider	
	neline: To be determined	_	ization: Maine Department of ies and Wildlife	
Acti	ivity: Research			
Partner Organizations: USFWS; Maine Coast Heritage Trust; Gulf of Maine Seabird Working Group				
Cos	ts: To be determined			
Current Support: State ownership; census paid by Maine Department of Inland Fisheries and Wildlife				
Unfunded:				
Pote	ential Sources: To be determined			

16	16 Program/Project Name: Little Libby Seabird Restoration Project		Submitted by: Brad Allen	
Imp	Implementation Priority:			
	ionale: Spread out the "risk". Little Libby Island is on IFW (state).		S and Big Libby Island by	
Obj	ectives:	Deliverables:		
•]	Restore terns and alcids	Established colony site	d nesting of additional island s	
Loca Main	ation: Little Libby Island & Big Libby Island, ne		s: Arctic Tern, Roseate Tern, ntic Puffin, Leach's Storm- on Eider	
Tim	eline: Within 10 years	Lead Organiza Service	ation: US Fish and Wildlife	
Acti	vity: Research	Service		
Part	tner Organizations: State, National Audubon			
Cost	ts: Check with FWS on costs			
Cur	rent Support: US Fish and Wildlife Service (owner	<u> </u>		
Unf	unded:			
Pote	ential Sources: To be determined			

17	Program/Project Name: Black Guillemot Nesting	Habitat Project	Submitted by: John Anderson
Imp	lementation Priority:		
Р			
	onale: Great Duck Island, Maine may support the land Lower 48.	gest breeding co	olony of Black Guillemots in
Obje	ectives:	Deliverables:	
Obje	ectives:	Deliverables:	
	Analyze and categorize Black Guillemot nesting habitat		dataset and map of good bitat for Black Guillemots on Island
Loca	ation: Great Duck Island, Maine	Target Species	s: Black Guillemot
Tim	eline: To be determined	Lead Organiz	ation: College of the Atlantic
Acti	vity: Research		
Part	ner Organizations:		
Cost	ts: To be determined		
Cur	rent Support: This is a current graduate project.		
Unf	unded:		
Pote	ential Sources: To be determined		

18	Program/Project Name: Gull Population Biology	Project	Submitted by: John Anderson	
Imp	Implementation Priority:			
Rationale: Since the initiation of active management of gull populations, very little has been done to monitor and keep up with what is going on either within or between populations. The last attempt at a coast-wise survey occurred around 1996, and there is likely no current monitoring of productivity at colonies.				
Obj	ectives:	Deliverables:		
]	Collect ongoing data on the population biology and productivity of Herring Gulls and Great Blackbacked Gulls	• Bi-annual r	report	
Loca	ation: Great Duck Island, Maine	Target Species backed Gull	: Herring Gull, Great Black-	
Tim	reline: Ongoing; long-term	Lead Organiza	ation: College of the Atlantic	
Acti	Activity: Research and Management			
Partner Organizations: Inland Fish & Wildlife Service; The Nature Conservancy				
Costs: To be determined				
Current Support:				
Unfunded:				
Pote	ential Sources: To be determined			

19	Project Name: Leach's Storm-Petrel Mo	onitoring	Submitted by:
Project Project		John Anderson	
Implementatio	on Priority:		
the continental monitor the mid	at Duck Island, Maine supports one of the United States. In 2002, wireless sensor ne croclimates in and around nesting burrow researchers to access real-time environm	etworks were dep s used by the Lea	ployed on Great Duck Island to ach's Storm-Petrel. These
Objectives:		Deliverables:	
Gain better habitat requ	onitoring techniques understanding of Leach's Storm-Petrel airements e-sensor technology	researcher non-intrus	onitoring kit that enables s worldwide to engage in the ive and non-disruptive g of sensitive wildlife and
Location: Grea	nt Duck Island, Maine	Target Specie	s: Leach's Storm-Petrel
Timeline: Initi	ated 2002; ongoing	Lead Organiz	zation: College of the Atlantic
Activity: Resea	arch, Management and Monitoring	_	
_	nizations: Intel Research Laboratory at Benservancy, state (landowner)	erkeley, Univers	ity of California at Berkeley,
Costs: To be de	etermined		
Current Supp	ort: Intel		
Unfunded:			
	ces: To be determined		

Program/Project Name: At-Sea Mon	itoring of Pelagic Submitted by:	
Waterbirds	Tom Hodgman	
Implementation Priority:		
	is lacking, and what pelagic data exist are approximately 20 numbers of birds are vulnerable to at-sea oil spills, and	
Objectives:	Deliverables:	
• Determine offshore areas of high concentration of priority pelagic species through surveys (ship-board; transects)	 Atlas to identify waterbird density GIS layer for integration with other marine data 	
Location: NW Atlantic continental shelf (Gulf of Maine; NY Bight, etc)	Target Species: Pelagic species: Audubon's Shearwater, Bonaparte's Gull, Bridled Tern, Cory's Shearwater, Dovekie, Glaucous Gull, Greater Shearwater, Great Skua, Iceland Gull, Little Black-backed Gull, Little Gull, Longtailed Jaeger, Manx Shearwater, Northern Fulmar, Parasitic Jaeger, Pomarine Jaeger, Sabine's Gull, Sooty Shearwater, South Polar Skua, Wilson's Storm-Petrel	
Timeline: Should be year-round (perhaps only the summer to start)	Lead Organization: Need one (perhaps a subcommittee within MANEM? USFWS?)	
Activity: Monitoring; Research; Management		
Partner Organizations: Potential with coas	stal states, USFWS, NGOs and others (NMFS?)	
Costs: To be determined		
Current Support: None		
Unfunded: All		
Potential Sources: Largely federal waters:	USFWS, NMFS, etc.	

21	Program/Project Name: Inventory of Inland Heror	nries	Submitted by:
			Tom Hodgman
Imp	Implementation Priority:		
Rationale: Existing data are 10-20 years old and may not reflect current population status or distribution. An increasing eagle population may be causing the break-up of coastal colonies, and the effects on inland colonies are unknown.			
Obj	ectives:	Deliverables:	
	Conduct an aerial census of inland heronries throughout Maine.	Atlas of ne of inland he	sting locations and abundances erons
Loca	ation: Maine (at least)	Target Species	s: Great Blue Heron
Tim	eline: To be determined	Lead Organiza	ation: To be determined
Acti	Activity: Research and Monitoring		
Partner Organizations: None to date			
Costs: To be determined			
Current Support: None			
Unf	unded:		
Pote	ential Sources: State Wildlife Grant		

22 Program/Project Name: Inland Waterbird Habita	t Protection Submitted by:	
Analysis	Tom Hodgman	
Implementation Priority:		
Rationale: Many prime sites, but not all, are already in of these and other important (unprotected) sites is needed of key sites is necessary to guide an acquisition program	ed before acquisition efforts commence. Analysis	
Objectives: • Analyze status (ownership, threats) of key inland wetland sites • Identify protection measures to guide management.	Deliverables:Database of unprotected sitesThreats analysis	
 Identify protection measures to guide management and acquisition 	Acquisition recommendations	
Location: Inland waterbird sites (Maine and perhaps other states)	Target Species: Virginia Rail, Sora, American Bittern, Least Bittern, Great Blue Heron, Green Heron, Pied-billed Grebe	
Timeline: 1 year Activity: Management and Acquisition	Lead Organization: Maine Department of Inland Fisheries and Wildlife	
Partner Organizations: State (ME); TNC; Land Trusts	s (potential)	
Costs: To be determined		
Current Support:		
Unfunded: All		
Potential Sources: State agencies, other		

23	Program/Project Name: Regional Source/Sink Dy Black Tern Populations	namics of	Submitted by: Tom Hodgman, Fred Servello
Imp	lementation Priority:		
	onale: After two successful M.S. projects on this species are species on the species of the spec	ecies in Maine, th	nis is the last major
Obj	ectives:	Deliverables:	
•]	Investigate the relationship of state and provincial populations of Black Terns to the regional population Determine how much effort should be placed on management for Black Terns in Maine Determine to what degree state-specific management will affect local vs. regional populations	,	f metapopulation dynamics nt recomendation
Loca	ation: Maine and neighboring states and provinces	Target Species	s: Black Tern
Timeline: To be determined Activity: Research and Management		Lead Organiza	ation: To be determined
Partner Organizations: To be determined			
Costs: To be determined			
Current Support:			
Unfunded:			
Potential Sources: To be determined			

	Program/Project Name: Population and Habitat E	cology of	Submitted by:
24 Marshbirds in Maine			Tom Hodgman,
			Fred Servello,
			Cyndy Loftin
Imp	lementation Priority:		
Rationale: There is a large body of both historical and recent occurrence data available. Anecdotal evidence points to declines of several species of concern, and several species currently of special concern may warrant state listing and recovery.			
Oh:	4 *	D-12	To an
	ectives:	Deliverab	oles:
	Determine species/habitat relationships for marshbirds, emphasizing those of conservation	• A mole	sais of moushkind was of Mains
		 Analy wetlan 	sis of marshbird use of Maine
	concern	wenai	ius
	Detarmine terms and translatin resultand account on an	- Ctatura	acceptant of manchinds in Mains
	Determine temporal trends in wetland occupancy	• Status	assessment of marshbirds in Maine
	by marshbirds in Maine		
	Determine habitat use and breeding status of		
	selected marshbirds of special concern		
T	-42 M-1	T4 C-	
Loc	ation: Maine		pecies: Virginia Rail, Sora,
			Bittern, Least Bittern, Great Blue
			een Heron, Pied-billed Grebe,
		Moorhen	Coot, Common Loon, Common
		Moornen	
Tim	eline: 2005-2007	Lood One	ranization. University of Mains
1 1111	eme. 2003-2007	Lead Organization: University of Maine, Maine Coop Unit	
A -45		Maine Co	op Omt
Activity: Research			
Partner Organizations: Maine Department Inland Fish and Wildlife			
Costs: To be determined			
Current Support:			
Unfunded:			
Potential Sources: To be determined			

Program/Project Name: Development and Distribution of a Field Guide to Beached Birds (Dead) for the North Atlantic Doug Forsell

Implementation Priority:

Costs: Development of guide: \$100,000

Washington have provided a major portion of \$100,000 **Unfunded:** Printing and distribution costs: \$30,000

Rationale: Beached bird surveys are an established method of collecting baseline date on mortality of marine birds. They have been used to assess mortality events from oil spills, disease outbreaks, bycatch in fishing gear, and starvation from natural sources such as El Nino events. One of the most important tools necessary to carry out beached bird surveys is a good field guide to dead birds since most surveys are conducted by volunteers who may start out with limited dead bird identification skills. Existing field guides to live birds are often inadequate because specimens may be in various states of decay, thus key features that persist in decayed birds such as bills and feet are highlighted by a beached bird guide. The National Marine Fisheries Service will also provide the guide to their fisheries observers to use in identifying dead birds found in fisheries bycatch. The Coastal Observation and Seabird Survey Team (COASST) from Seattle, WA, will undertake the production of the Atlantic Beached Bird Survey Field Guide. COASST has already produced a high-quality guide to beached birds of Washington and Oregon.

Objectives:	Deliverables:
Develop, print, and distribute a beached bird guide for North Atlantic marine birds that will be a lasting educational and practical resource for volunteers, government agencies, non-profit organizations, and oil spill response teams.	 A beached bird field guide that will: be printed on waterproof paper for use in the field consist of a "key" to dead birds based primarily on foot type, a wing table and life-sized bill overlays in addition to pictures of dead birds include standardized techniques and data forms
Location: Northeast States and Atlantic Maritime Provinces	Target Species: seabirds
Timeline: 2004-2005 Activity: Management and Assessment	Lead Organization: University of Washington
Partner Organizations: University of Washington, Stat Canada, NMFS, several others	e of Massachusetts, NMFS, Environment

Current Support: Environment Canada, State of Mass, European Union, NMFS, University of

Potential Sources: State Wildlife Grants, Oil spill restoration funds, USFWS

26	Program/Project Name: Citizen Science Network for Beached	Submitted by:
20]	Program/Project Name: Citizen Science Network for Beached Bird Surveys	Doug Forsell

Rationale: Beached bird surveys are an established method of collecting baseline date on mortality of marine birds. They have been used to assess mortality of birds from oil spills, disease outbreaks, bycatch in fishing gear, and starvation from natural sources such as El Nino events. As data sets become available they will be become increasingly important in damage assessments from spills, and used by a variety of managers to assess health of bird communities.

Beached marine mammals and turtles will also be recorded and reported to the appropriate sources, increasing NMFS database of strandings. These surveys are being conducted to detect high-mortality events (such as disease outbreaks and oil spills) and to establish baseline data on coastal aquatic bird mortality.

Objectives:	Deliverables:	
 Develop a network of citizen scientists, state and federal biologists to conduct regular beached bird surveys along the Northeast coast of the US Train some surveyors to conduct shorebird and seabird surveys Have volunteers enter data directly on the web, allowing for quick compilation of results 	Web-based searchable database containing baseline data and information on mortality events (to be housed at the National Biological Information Infrastructure, USGS)	
Location: Northeast and Mid-Atlantic Coastal States (BCR 30)	Target Species: Marine birds	
Timeline: 2004 – 2005 for initiation	Lead Organization: Seabird Ecological Assessment Network (SEANET), or other	
Activity: Management and Assessment	NGOs, or USFWS and USGS	
Partner Organizations: State of Mass, Canadian Wildlife Service, USFWS, USGS, National Park Service, State Wildlife agencies		
Costs: Volunteer Manager, data management, and operating expenses: \$80,000 per year		
Current Support: Some surveys underway at some parks, refuges, and NGO's etc.		
Unfunded: All		

Potential Sources: State Wildlife Grants, oil spill restoration funds, USFWS, USGS, NMFS, USCG

27	Program/Project Name: Waterbird Bycatch: Assessment and Management for Elimination/Reduction to Minimal Levels	Submitted by:
21	Management for Elimination/Reduction to Minimal Levels	Doug Forsell
I		

Rationale: Effective data collection and monitoring through observer programs is expensive.

Buyouts are easier in states with limited entry, and legal action may be necessary in others (e.g. NFWF bought Norwegian salmon rights; ASMFC eliminated shad intercept fishery). There is a need to work with fishers for equitable settlement. Fisheries agencies should be researching bycatch reduction techniques.

Objectives:	Deliverables:
 Conduct a risk assessment based on available bycatch data, data on gear type/bird interactions, current fisheries and gear types and methods, and known bird distributions to target fisheries likely to have high bird mortality Determine quantity and species of birds caught in bycatch Fund incentives or measures to reduce bycatch (through gear or fishing technique modification), or eliminate fishery (through legislation or buyouts) if bycatch cannot be mitigated 	 Identification of fisheries with high bird mortality Bycatch reduction/elimination Changes in fisheries practices/gear More effective implementation of legislation
Location: BCR 30 (all states)	Target Species: Audubon's Shearwater, Cory's Shearwater, Greater Shearwater, Manx Shearwater, Sooty Shearwater, Northern Gannett, Common Loon, Red-throated Loon, Brown Pelican
Timeline: 2005 - 2010	Lead Organization: State agencies through ASMFC, Federal agencies in federal waters
Activity: Management and Assessment	

Partner Organizations: NMFS, USFWS, ASMFC, Mid-Atlantic Fisheries Management Council, New England Fisheries Management Council, Ducks Unlimited, etc.

Costs: One person/year to perform risk assessment; \$100,000-\$500,000 to assess a fishery with observers; \$25,000-millions to buy out fisheries

Current Support: USFWS Bycatch Elimination Policy; NMFS (where mammal and turtle bycatch occur in the same fisheries); NMFS and some states collect data on bird bycatch, but do not systematically analyze them.

Unfunded: All

Potential Sources: State Wildlife Grants, Oil spill restoration funds, Ducks Unlimited, USFWS

28	Program/Project Name: Pelagic Waterbird Distribution and	Submitted by:	
28	Abundance Database	Doug Forsell	
Implementation Priority:			
Rationale: The distribution and abundance of waterbirds including seaducks, diving ducks, loons, and			
seabirds along the Atlantic States is largely unknown beyond a few hundred meters from shore. Some			
data from standardized shipboard surveys of waterbirds from the late 1970's and early 80's exists. Some			
1 .			

seabirds along the Atlantic States is largely unknown beyond a few hundred meters from shore. Some data from standardized shipboard surveys of waterbirds from the late 1970's and early 80's exists. Some data is available in digital form and other data exists only in paper files. Other data from bird watching trips since the 1970's exists and in some cases may be the only data for distribution of rare birds or for some geographic areas. These data are needed now to influence coastal activities, and the sources will be lost as time goes on.

Objectives:	Deliverables:	
 Pull together existing waterbird shipboard and aerial data sets for the northern U.S. Atlantic seaboard and incorporate them into a GIS for easy access (similar projects are currently underway in Alaska and on the west coast) Purchase and enter data, and reformat existing digital data Produce and distribute an interactive CD for government and public use 	 GIS database Interactive CD 	
Location: U.S. Atlantic waters to 200 nm (offshore of BCR 30)	Target Species: Black-legged Kittiwake, Sooty Shearwater, Audubon's Shearwater, Parasitic Jaeger, Cory's Shearwater, Great Skua, Pomarine Jaeger, Longtailed Jaeger, Wilson's Storm-Petrel, Leach's Storm-Petrel, Greater Shearwater, Manx Shearwater, South Polar Skua, Common Loon, Red-throated Loon, Black Guillemot, Black-headed Gull, Bonapart's Gull, Bridled Tern, Common Murre, Double-crested Cormorant, Foster's Tern, Glaucous Gull, Great Black-backed Gull, Great Cormorant, Herring Gull, Horned Grebe, Iceland Gull, Northern Fulmar, Northern Gannett, Razorbill, Ringnecked Grebe, Roseate Tern, Sabine's Gull, Thick-billed Murre, diving ducks, and seaducks	
Timeline: 1-3 years	Lead Organization: USFWS or MMS or NMFS or NOAA	
Activity: Research and management		
Partner Organizations: USFWS, MMS, NMFS, various state wildlife agencies		
Costs: \$150,000 per year for two years for historical data acquisition and formatting		
Current Support: None		
Unfunded: \$300,000		

Potential Sources: State Grants, MMS, USFWS, Wind Industry

	Program/Project Name: Verification and Completion of North	Submitted by:
29	Atlantic Coastal and Marine Waterbird Database	Doug Forsell
		Steering Committee
_		

Rationale: Without data on the distribution and abundance of birds, we are unable to influence activities in coastal waters such as: identifying areas where high bycatch of birds might occur, commenting on nearshore development projects, conducting damage assessments from spills, and planning for and responding to spills. Currently, coastal shoals to 12 miles offshore are being proposed for mining of sand for beach replacement projects and the placement of wind turbines for energy production. With the limited data available, biologists cannot determine what the value of shoal areas are to migratory birds nor are we able to suggest alternative areas for development where impacts to birds might be mitigated. Many of the species in these waters are thought to have declining populations including, scoters, long-tailed ducks, and loons. Most of the data on offshore distribution and abundance of waterbirds is from the late 1970's and early 80's. Another project will pull this data into a comprehensive digital database.

Objectives:	Deliverables:
 Determine where seasonal or geographic gaps in the data exist (expected to be over 50 % of the area) Conduct aerial or shipboard surveys of the Continental Shelf waters prioritizing shallow water areas, which are currently under pressure for development and are usually not surveyed by large ships from which most existing data was collected. Compare historical data with new data to determine for which species and geographical areas historical data are still applicable. 	
Location: U.S. Atlantic waters to 200 nm. (offshore of BCR 30)	Target Species: Black-legged Kittiwake, Sooty Shearwater, Audubon's Shearwater, Parasitic Jaeger, Cory's Shearwater, Great Skua, Pomarine Jaeger, Longtailed Jaeger, Wilson's Storm-Petrel, Leach's Storm-Petrel, Greater Shearwater, Manx Shearwater, South Polar Skua, Common Loon, Red-throated Loon, Black Guillemot, Black-headed Gull, Bonapart's Gull, Bridled Tern, Common Murre, Double-crested Cormorant, Foster's Tern, Glaucous Gull, Great Black-backed Gull, Great Cormorant, Herring Gull, Horned Grebe, Iceland Gull, Northern Fulmar, Northern Gannett, Razorbill, Ringnecked Grebe, Roseate Tern, Sabine's Gull, Thick-billed Murre, diving ducks, and seaducks
Timeline: 2006-2008	Lead Organization: USFWS, USGS, NOAA, or NMFS

Partner Organizations: USFWS, USGS, NOAA. coastal States

Costs: 100K for statistical analysis and evaluation of data; 150-250K/year for surveys of data gaps, but could easily be \$500k per year if multiple areas are surveyed in the same year.

Current Support: None Unfunded: 250-500K year

Activity: Research and Monitoring

Potential Sources: MMS, FWS, NMFS, NOAA

30	Program/Project Name: Mortality and Sub-lethal Effects of Submitted by:			
	Offshore and Coastal Wind Power Facilities on Wa	terbirds Doug Forsell		
Imp	Implementation Priority:			
Rationale: Wind energy is a rapidly growing energy source in the U.S. However, there are concerns over the potential threat to waterbirds from wind power facilities. Wind energy facilities may cause bird mortality from collisions and/ or avoidance of facilities and surrounding habitat.				
Obj	ectives:	Deliverables:		
•	Conduct an independent assessment of the effects of bird strikes and displacement at wind power facilities on waterbirds Design and conduct new or independent surveys to evaluate if data being collected is accurate and reflects the actual effects of wind power facilities on waterbirds Draw from current and past waterbird surveys to identify important bird areas. (Use technical data from European studies and from U.S. facilities as they come online)	 Map of IBA sites that may conflict with new wind energy sites Updated dataset on effects of wind power facilities on birds Conservation plan to guide to placement of new wind power sites 		
Loc	ration: All NE Maritime states (BCR 30)	Target Species: all waterbirds, some neotropical migrants		
Tim	Timeline: 2006 - 2010 Lead Organization: MMS, NMFS, NO FWS (all unconfirmed)			
Activity: Research and Management				
Partner Organizations: MMS, NMFS, NOAA, FWS, DOE (all unconfirmed), all NE Maritime states. This type of project would require multi-state application, integration of wind power developers monitoring data, independent assessments, and communication with European biologists. Costs: \$100,000 per year for each study (\$300,000)				
Current Support: None				
Unfunded: \$100,000-\$400,000				

Potential Sources: State Wildlife Grant, Federal lease revenues, DOE, DOI, wind energy developers

21	Program/Project Name: Wading Bird Productivity	Submitted by:
31		Patrick Comins

Rationale: A better understanding of productivity trends in wading birds would be helpful in determining population dynamics and which potential sites should be priorities for acquisition and/or management. The less common nesting species such as Glossy Ibis, Little Blue Heron, and Cattle Egret seem to come and go like the wind. It would be useful to have a clearer understanding of the factors that affect the dynamics of these populations. Additionally, even the more common species, such as the Great Egret, Snowy Egret and Black-crowned Night-Heron have a history of colony abandonment with little notice. To better understand the factors behind colony abandonment would allow for improved management of existing colonies. Research has already been conducted on Great Captains Island in Greenwich and Chimon Island in Norwalk that could be incorporated into expanded research.

Objectives:	Deliverables:	
• To better understand the dynamics of predation, human interference, and competition (i.e. deer/cormorants) in determining where wading bird colonies are and what is happening to them (i.e. the how's and why's of colony size and distribution).	 A list of existing colonies that are priority for improved management and protection A list of priority acquisition sites 	
Location: Great Captains Island, Charles Island &	Target Species: Black-crowned Night Heron,	
Cockenoe Island, Connecticut	Great Egret, Snowy Egret, Little Blue Heron, Glossy Ibis, Cattle Egret, Double-crested Cormorant	
Timeline: Dependent upon funding	Lead Organization: Connecticut Audubon Society (Milan Bull). Would have to be	
Activity: Research and Management	coordinated and conducted with approval of CT DEP	
Partner Organizations: Connecticut Audubon Society,	Manomet Center for Conservation Sciences,	
USFWS, Audubon Connecticut		
Costs: To be determined		
Current Support:		
Unfunded: To be determined		
Potential Sources: To be determined		

1 1 2 4		Submitted by:	
32	32 Nesting Areas for Waterbirds in Connecticut.		Jenny Dickson
			Patrick Comins
Imp	Implementation Priority:		
Rat	ionale: Acquisition of these areas by the USFWS and	d/or Connecticut	DEP will allow for improved
	ection and management of key nesting areas for water		
Sou	nd. There would be much public support and support	by conservation	organizations for any of these
acqı	uisitions.		
Obj	ectives:	Deliverables:	
•	To acquire and better manage key waterbird	 Permanent 	ly protected critical habitats for
	nesting areas. Targets (in order of priority):		in Connecticut
	 Long & Pleasure beaches (Stratford and 		
	Bridgeport). Municipally owned		
	Menunketesuck Island (Westbrook). Privately		
owned.			
Ram Island (Mystic). Privately Owned			
 Horse Island (Branford). Owned by Yale University 			
Kelsey Island (Branford): plovers and terns are			
relatively secure, but small numbers. Privately			
	owned.		
Loo	Location: Connecticut Target Species: Least Tern, Green Heron,		
Loc	ation: Connecticut		on, Black-crowned Night
		Heron, Yellow-crowned Night-heron, Cattle Egret, Great Egret, Snowy Egret, Glossy Ibis,	
		and Piping Plo	
			, 61
Timeline: Dependent on funding		Lead Organiz	ation: USFWS, DEP
Activity: Management and Funding			
Partner Organizations: The Nature Conservancy, TPL, municipalities, Land Trusts?			
Costo To he determined			
Costs: To be determined			
Current Support:			
Unfunded: To be determined			
Potential Sources: Land and Water Conservation Fund, North American Wetlands Conservation Act,			
· · · · · · · · · · · · · · · · · · ·			
USFWS National Coastal Wetlands Conservation Grant Program, Cooperative Endangered Species			

Conservation Fund, Private Donations, State monies.

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Rationale: As with all colonial-nesting waterbirds, effective conservation of terns requires not only protection and proper management of nesting colonies but also conservation and/or management of key foraging areas. Some work has been done on Roseate Tern foraging areas, but that could be expanded along with studies on feeding areas for Common Tern and Least Tern. An analysis of what the birds are eating and population dynamics of the prey base would make this information more valuable. Better understanding of foraging areas and foraging biology of terns would allow for better planning for historic colony restoration and/or work to create new colonies.

Objectives:	Deliverables:	
Determine key tern foraging areas and correlate with prey base analysis.	Identification of key foraging sites for terns	
Location: Long Island Sound, CT	Target Species: Common Tern, Least Tern, Roseate Tern	
Timeline: To be determined	Lead Organization: American Museum of Natural History	
Activity: Research	(Matthew Male)	
Partner Organizations: To be determined		
Costs: To be determined		
Current Support:		
Unfunded:		
Potential Sources: To be determined		

Program/Project Name: Site Specific Conservation Planning at Important Waterbird Bird Areas in Connecticut

Submitted by: Patrick Comins

Implementation Priority:

Rationale: Consolidating known information about key sites, as well as outlining research, monitoring, education, outreach and inventory needs and opportunities in a single document will give conservation planners a blueprint to follow in order to increase efficiency of conservation and/or research projects at each site. The conservation planning process will identify and engage potential stakeholders at each site in order to foster the formation of stewardship adoption groups at each IBA. The plans will outline conservation needs and provide a checklist to follow to ensure proper management and monitoring of key sites. Loose models for IBA conservation plans can be found at: http://www.ibacanada.com/cp.html. The initial plan will cover ~10 acres of wetland owned by the Hartford Audubon Society, but this property lies within several thousand acres of undeveloped floodplain along both sides of the Connecticut River north of Hartford. Within this area there are many wetlands of significance to waterbirds. The Sandy Point conservation plan may require additional funding if the scope is to include the adjacent Old Field Creek Marsh. There are currently 21 publicly announced IBAs in Connecticut, of which at least 12 sites have a significant waterbirds component, ranging from nesting colonies to foraging areas to fresh-water wetlands with nesting non-colonial waterbirds of conservation concern. There is a goal of having 75 publicly announced IBAs within 3 years, an unknown portion of which will have at least some waterbird component.

Objectives:	Deliverables:
 Determine natural resource status at IWBAs in CT Analyze threats and opportunities for conservation Develop a stakeholder network for each site to implement conservation strategies 	 Site-specific conservation plans for IWBAs that will facilitate more efficient conservation actions that support waterbirds Stakeholder support groups and network for CT IWBA
Location: Important Bird Areas along the CT coast	Target Species: Common Tern, Roseate Tern, Least Tern, Black-crowned Night-Heron, Cattle Egret, Glossy Ibis, Great Egret, Green Heron, Little Blue Heron, Snowy Egret, Yellow-crowned Night-Heron, Clapper Rail, King Rail, Sora, Least Bittern, American Bittern, Pied-billed Grebe, Virginia Rail, plovers
Timeline: Dependent on funding but three to be developed by July 2005. Activity: Management	Lead Organization: Audubon Connecticut

Partner Organizations: Various landowners and other groups with interest in sites.

Costs: Varies by site. Smaller, less complex sites will likely cost between \$3,000-8,000/site and larger more complex sites may cost \$15,000-\$20,000.

Current Support: Current funding is from a private individual donor and the GE Foundation. Audubon Connecticut has funding to complete three pilot conservation plans in FY '05 (July '04-June'05). All three IBAs proposed for conservation planning have a waterbird component. Sites proposed for conservation planning in FY '05 are Station 43 sanctuary in South Windsor, Cove Island Park in Stamford and Sandy Point in West Haven. A proposal to fund three per year over next three years is pending.

Unfunded: Additional funding would be useful to expand the scope of the conservation plan for Station 43 to include all of the Conte Special Focus Area 13.

Potential Sources: Additional sources of funding are being sought.

_	Project Name: Determination of Key or Wetland Nesting Birds	Nesting Areas for	Submitted by: Patrick Comins
Implementation	on Priority:		I
listed non-color about the distrib rails. GIS-based	re accurate and precise inventories are anial waterbirds. While much is known aboution of non-colonial inland species such habitat modeling combined with expanser understand the distribution of these sanning.	about coastal coloniuch as the Pied-bille anded inventory efforts	ial waterbirds, little is known ed Grebe, American Bittern and orts would help conservation
Objectives:		Deliverables:	
freshwater	key nesting areas for non-colonial waterbirds such as rails, Least and Bitterns and Pied-billed Grebes.		of key nesting areas in CT n for conservation management
Location: Con	necticut	Moorhen, King	s: Clapper Rail, Common g Rail, Sora, Virginia Rail, ebe, American Bittern, Least
Timeline: To b	e determined	Lead Organiz	ation: To be determined
Activity: Resea	nrch		
_	nizations: Audubon Connecticut, Conn nithological Association	ecticut Audubon So	ociety, USFWS, CT DEP,
Costs: To be de	etermined		
Current Supp	ort:		
Unfunded: All			

Potential Sources: To be determined

Program/Project Name: Determination of Limiting Factors for		Submitted by:	
Beach I	Nesting Waterbirds		Patrick Comins
Implementation Priority:			
predation of prey base or	Beach-nesting waterbirds are potentially leggs and young, loss of habitat through ekey foraging areas. Determination of the east Terns on Long Island Sound would a	erosion and/or succ e key factor or factor	ession and loss or degradation or ors limiting populations of such
Objectives:		Deliverables:	:
• Determine waterbire	ne limiting factors for beach-nesting ds	• Identifica sites	tion of limiting factors at nest
Location: L	ong Island Sound, CT	Roseate Tern,	es: Least Tern, Common Tern, Double-crested Cormorant, backed Gull, Herring Gull
Timeline: T	o be determined	Lead Organi	zation: To be determined
Activity: Re	search		
-	ganizations: Audubon Connecticut, Auduben Connectic		onnecticut Audubon Society,
Costs: To be	e determined – need a ballpark figure		
Current Suj	pport: None		
Unfunded: A	All		

	Program/Project Name: Public Education and Outreach for	Submitted by:
37	Colonially-nesting Waterbirds	Patrick Comins
		EJ McAdams

Rationale: Human disturbance at nesting colonies of both terns and herons is likely to increase with increasing recreational demand on coastal resources. Increased public awareness about these natural resources will result in improved public support for the conservation of these resources and may lead to behavior modification at sites. These birds are also easy to see for novices. By introducing participants to easy-to-see, celebrity species like egrets, herons and ibis, they may take a stronger interest in the conservation of these and other species. Any involvement in this project by Audubon Connecticut would likely be subsequent to completion of conservation plans, which will outline educational opportunities and needs at each location. USFWS (McKinney Wildlife Refuge) has begun work on a pamphlet about Island Ethics that would be related to this project.

Objectives: Deliverables: Increase public awareness of the importance of Educational materials (pamphlets, nesting colonies for colonial waterbirds and the brochures, handouts) and programs vulnerability of sites to disturbance Produce and distribute educational materials about Increased local awareness and these sites outlining ways that the public can stewardship of nesting sites modify behavior so as to reduce disturbance at key locations Develop site-based public education programs, where appropriate, to increase local awareness of the importance and fragility of these sites and foster increased local stakeholdership in the conservation of waterbird colonies Develop a long-legged wading bird curriculum for the region (with sections specific to nesting colonies) for use on tours around the colony, preferably by boat (potentially modeled after Project Puffin) Location: Key colonial waterbird nesting sites in BCR **Target Species:** Colonial nesting waterbirds **Timeline:** Long-term (to be determined) **Lead Organization:** New York City Audubon Society, Audubon Connecticut, **USFWS Activity:** Education

Partner Organizations: Potential partners include: Connecticut DEP, Audubon New York, Connecticut Audubon Society, USFWS, educational institutions: Bank Street, NYU, Columbia Teacher's College

Costs: For NYC Audubon: boat rental is \$900 for 2 hrs. Volunteers can lead the tours or an educator can be hired for \$50/hour.

Current Support: NYC Audubon has a program in place to take participants up the East River to circle North and South Brother Islands. NYS DEC's Hudson River Estuary Grants Program provided funds for this pilot education program.

Unfunded: To be determined

Potential Sources: To be determined

38	Program/Project Name: Correlation Between Nesting Colonies of Colonial Wading Birds and Foraging Areas	Submitted by: Patrick Comins
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Rationale: Much is known about nesting areas of colonial herons and egrets, but little is known about foraging areas and how much of a limiting factor such areas are for these birds. Effective conservation planning for colonial waterbirds requires an understanding of the limiting factors both at nesting colonies and foraging areas around colonies. Additionally, a better understanding of key foraging areas will allow for greater protection of those areas and allow us to determine if additional potential or historical nesting areas are worthy of protection for their value as a potential rookery. Some work has been done with flight trajectories at Chimon Island and at Great Captains Island. Existing data could be analyzed along with GIS-based habitat modeling to determine where these birds are traveling to and from to gather food for nestlings. Inventory work and prey base analysis at known key foraging areas and trajectory analysis at additional colonies would add to our knowledge base about the importance of foraging areas.

Objectives:	Deliverables:
Determine key foraging areas of each colony of colonial nesting waterbirds;	Identification of critical foraging habitats sustaining waterbirds
Analyze existing data along with GIS-based habitat modeling to determine where birds are traveling to and from to gather food for nestlings;	
Analyze prey base at known key foraging areas and flight trajectories at additional colonies.	
Location: Long Island Sound	Target Species: Green Heron, Little Blue Heron, Yellow-crowned Night Heron, Black- crowned Night Heron, Cattle Egret, Snowy Egret, Great Egret
Timeline: To be determined	Lead Organization: To be determined
Activity: Research	
Partner Organizations: Audubon Connecticut, Audubon Connecticut Audubon Society, USFWS, CT DEP, Connecticut Au	· · · · · · · · · · · · · · · · · · ·
Costs: To be determined	
Current Support:	
Unfunded: To be determined	
Potential Sources: To be determined	

39	Program/Project Name: Seasonal Waterbird Usage Inventory of Long Island Sound	Submitted by: Patrick Comins
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Rationale: There is little data on the importance of Long Island Sound to birds in the non-breeding season. Significant numbers of species such as Red-throated Loon, Northern Gannet, Horned Grebe and others may use the waters of Long Island Sound in migration or the winter. Better information about seasonal usage of the Sound by such birds would allow us to more effectively plan for and address potential threats to the Sound, such as pipeline crossings, dredging and dredge spoil disposal projects and oil spills. Data would also allow us to determine if the Sound may qualify as a nationally or continentally significant IBA.

Objectives:	Deliverables:
Determine seasonal patterns of waterbird usage of Long Island Sound.	Identification of temporal patterns of waterbird use in the Long Island Sound
Location: Long Island Sound	Target Species: Non-breeding waterbirds in LI Sound: Black-headed Gull, Black Kittiwake, Bonaparte's Gull, Common Loon, Double-crested Cormorant, Glaucous Gull, Great Black-backed Gull, Great Cormorant, Greater Shearwater, Herring Gull, Horned Grebe, Iceland Gull, Leach's Storm Petrel, Northern Gannett, Razorbill, Ringnecked Grebe, Red-throated Loon
Timeline: Dependent upon funding	Lead Organization: Connecticut DEP and University of CT
Activity: Research and Monitoring	

Partner Organizations: Audubon Connecticut, Audubon New York, Connecticut Audubon Society, US Coast Guard Auxiliary

Costs: To be determined

Current Support: Could be combined or at least coordinated with Connecticut DEP waterfowl inventory efforts.

Unfunded: DEP has at least some funding for plane-based waterfowl surveys

Potential Sources: To be determined

Program/Project Name: Coastal Waterbird Habitat Acquisition		Submitted by: EJ McAdams
Implementation Priority:		
Rationale: The NY-NJ Harbor Estuary Program has de Acquisition sites for the bi-state region. This project we which are highly sought after by developers.		
Objectives:	Deliverables:	
• Prioritize the HEP sites with respect to waterbirds	Prioritized	l list of sites
 Identify potential acquisition funding sources and facilitate acquisition 	Permanen the estuary	tly protected key sites within
Location: Coastal sites in the New York/New Jersey Estuary	Yellow-crown Great Egret, C Glossy Ibis, T Great Black-b Least Tern, Co	es: Black-crowned Night-Heror ned Night-Heron, Snowy Egret, Cattle Egret, Little Blue Heron, ri-colored Heron, Herring Gull, acked Gull, Laughing Gull, common Tern, roseate Tern, ern, Foster's Tern
Timeline: 6 months for list; long-term for acquisition	Lead Organiz	zation: New York City
Activity: Acquisition		
Partner Organizations: NY-NJ HEP, Trust for Public	Land	
Costs: To be determined		
Current Support: To be determined		
Unfunded:		
Potential Sources: Port Authority		

41	Program/Project Name: Harbor Heron Health & Monitoring Program	Submitted by: EJ McAdams

Rationale: This multifaceted project involves collection health, disease, and toxicology information for wading birds nesting in NY Harbor, as well as volunteer data collection of information about the foraging ecology of these birds via observations of birds leaving their breeding grounds to forage, and using radio-telemetry. Harbor heron species are excellent sentinels of ecological health of the NY Harbor and surrounding waterways. These birds forage on fish species also eaten by humans in the NY area, and heron species utilize habitats, coast lines, and beaches often used by humans for recreational purposes and swimming. From this perspective, herons serve as great ecological indicators of contaminants such as heavy metals, pesticides, and PCB's. Previous research by Parsons et al. have demonstrated historical problems associated with contaminants and we will build on these studies to also evaluate baseline health of chicks and disease prevalence (West Nile Virus, Newcastle's, Avian Influenza, etc.) amongst heron colonies. This information will help resource managers understand the most important risks to heron health in the NY Harbor, and also provide managers with important information about the habitats that need to be preserved to ensure that herons have adequate nesting and foraging areas.

Objectives:	Deliverables:
 Measure baseline health indices and disease prevalence in herons Measure pollutant levels from birds and prey Radio-mark herons and monitor their foraging ecology Train citizen scientists to help with foraging monitoring 	 Report summarizing monitoring results NY Harbor Herons Book Field guide to NY Harbor Herons Well-trained volunteers ready for future projects
Location: New York Harbor, foraging sites in NY & NJ	Target Species: Black-crowned Night-Heron, Cattle Egret, Glossy Ibis, Great Egret, Little Blue Heron, Snowy Egret, Tri-colored Heron, Yellow-crowned Night-Heron
Timeline: Initiated spring 2004; long-term	Lead Organization: New York City Audubon and Wildlife Trust
Activity: Monitoring and Research	
Partner Organizations: City of New York Parks and Re	ecreation, NYS Dept. of Environmental
Conservation, National Parks Service, College of Staten	•
Conservation, Ivational Larks Service, Conlege of Staten	isiana, Communa Omversity

Costs: \$250,000 total project cost per year

Current Support: Spring -Summer 2004: \$14,000 NYC Environmental Fund, \$12,000 Hudson River Estuary Grants Program, Wildlife Trust \$25,000

Unfunded: \$199,000

Potential Sources: State Wildlife Grant

42	Program/Project Name: Metapopulation Studie	Submitted by: EJ McAdams
lmp	lementation Priority:	·
betv	terns move in each region, but there have not been veen colonies. The numbers appear to be declining and fluctuations and establish a baseline for unnatural	g for these birds, and there is a need to quantify
Obj	ectives:	Deliverables:
	Determine how birds move in the region and quantify natural fluctuations for use as a baseline for unnatural fluctuations	Better managed areasTagged bird observer network
•	Gain a better sense of population declines	
_	T1 ('C':1 1 1:1 :1 1	
	Identify islands which are sinks and sources	
•	Tag or radio-telemetry birds	

Location: New Jersey, New York, Connecticut,
Rhode Island, Massachusetts (Southern New England
– Long Island Sound)

Timeline: To be determined

Activity: Research and Monitoring

Target Species: Little Blue Heron, Blackcrowned Night-Heron, Yellow-crowned Nightheron, Cattle Egret, Snowy Egret, Great Egret,
Glossy Ibis, Common Tern, Least Tern, Roseate
Tern

Lead Organization: Manomet Center for
Conservation Sciences

Partner Organizations: New Jersey Audubon, NYC Audubon, Audubon CT, Audubon Rhode Island, Mass Audubon, state agencies, Wildlife Trust, NYC Parks

Costs: Approximately \$50,000 for the volunteer portion, including a coordinator, travel, printing and mailing.

Current Support: NYC Audubon is working on projects in NY, Audubon CT in Connecticut, and others in their states/municipalities.

Unfunded: All

Potential Sources: State Wildlife Grants

43 Program/Project Name: Pelagic Seabird Research		
EJ McAdams EJ		
Rationale: Very little is known about pelagic seabirds, a most serious birders. Connecting the public to these birds for their protection. Educating and enlisting fishing boats drastic changes in pelagic seabird population.	s will encourage the building of a constituency	
Objectives:	Deliverables:	
 Raise awareness on the status and concerns of pelagic seabirds using the web, press, and some kind of webcam. Create a booklet that describes threats to the birds and possible actions that citizens can take to mitigate threats Build a coalition of fishing boats and birders to count pelagic seabirds Develop methodology for pelagic bird research, as well as a way to ensure quality control Location: Hudson Canyon (off-shore of New York and New Jersey) 	 Booklet of pelagic seabird threats Network of fishing boats and citizen scientists for pelagic seabird counts Pelagic seabird research methodology Target Species: Black-legged Kittiwake, Sooty Shearwater, Audubon's Shearwater, Greater Shearwater, Manx Shearwater, Leach's Storm-Petrel, Wilson's Storm-Petrel South Polar Skua, Long-tailed Jaeger, Northern Fulmar 	
Timeline: To be determined	Lead Organization: To be determined	
Activity: Education		
Partner Organizations: New York City Audubon, Audu	ubon Chapters in Long Island, etc	
Costs: Birders would likely volunteer, and a volunteer cocustom pelagic bird webcam and providing incentive to t	<u>C</u>	
Current Support: None		
Unfunded: All		
Potential Sources: To be determined		

	Program/Project Name: Public Education and Outreach for	Submitted by:
44	Colonial Nesting Waterbirds at Grandview Beach, City of	Ruth Boettcher
	Hampton, VA	

Potential Sources: To be determined

Rationale: Grandview Beach Nature Preserve (GBNP), owned by the City of Hampton, is the site of the largest and most well established least tern colonies on the western shore of the lower Chesapeake Bay. GBNP is currently accessible only by boat. However, because of its close proximity to a major metropolitan area, the colony is subject to considerable degree of human disturbance from recreational boaters, which has had a negative effect on colony's reproductive success over the years. The level of human disturbance is predicted to increase with increasing recreational demand on coastal resources. Therefore, it is critical to increase public awareness about the importance and sensitivity of this site in order to garner public support for its long-term conservation and protection. Moreover, effective public outreach and education may lead to human behavior modification, which will go a long towards reducing human disturbance. Ruth Beck, with the College of William and Mary, has done a considerable amount of outreach work on a very limited budget and has established a good working relationship with the City of Hampton's Recreation Dept. Annual funding is needed for the printing and delivery of educational materials, hiring of seasonal staff to be on hand during the breeding season to educate GBNP visitors on how they can minimize disturbance to the birds, and increase law enforcement presence to ensure compliance with area closures.

Objectives:	Deliverables:		
 Produce and distribute educational materials about GBNP outlining ways that the public can modify behavior so as to reduce disturbance at the site. Initiate site-based public outreach and education by having seasonal staff at BGNP on the weekends and holidays during the breeding season to educate visitors on the importance and fragility of GBNP and foster a local stakeholdership in the conservation of this important and historic breeding area. Enhance the protection of least terns through improved signage and increased law enforcement presence. 	 Educational materials (i.e. pamphlets, brochures, handouts) and programs Improved and increased signage at GBNP. Site-based public outreach and education by seasonal staff on weekends and holidays. Increased law enforcement presence. 		
Location: Grandview Beach Nature Preserve, Hampton, VA	Target Species: Least Tern		
Timeline: To be determined	Lead Organization: College of William and Mary and the Virginia Dept. of Game and		
Activity: Education and Management	Inland Fisheries		
Partner Organizations: Hampton Parks and Recreation Department			
Costs: To be determined			
Current Support: Virginia Dept. of Game and Inland Fisheries provides signage.			
Unfunded: To be determined			

 Program/Project Name:
 Statewide Colonial Waterbird Surveys in Virginia
 Submitted by: Ruth Boettcher

Implementation Priority:

45

Rationale: For the years prior to the mid-1970's, systematic information on the abundance and distribution of colonial waterbirds in Virginia does not exist. During the 1975 and 1976 breeding seasons, the first systematic survey of wading bird colonies in coastal Virginia was completed in association with a broad-based survey covering the entire Atlantic Coast. In 1977, the first systematic survey of all colonial waterbird species was conducted in association with the "Maine to Virginia" project, which focused primarily on the coastal fringe and did not attempt to cover the entire coastal plain. Between the mid-1970's and the early 1990's, colonial waterbird work in Virginia either examined assemblages within specific locations or targeted individual species over broad areas. During the spring and summer of 1993, the Center for Conservation Biology (College of William and Mary) in cooperation with the Virginia Department of Game & Inland Fisheries, the U.S. Fish & Wildlife Service, the Virginia Department of Environmental Quality, The Nature Conservancy, and many private volunteers coordinated a comprehensive survey of all colonial waterbirds within the Coastal Plain of Virginia. This effort resulted in the most detailed overview of colonial waterbirds ever achieved in the eastern portion of the state (Watts and Byrd 1998). Status and distribution information was collected for 24 species within 450 colonies and included an estimated 160,000 breeding adults. Colonies were scattered over 100 topographic quadrangles. The 1993 survey has been used extensively by all regulatory agencies within Virginia to help develop management plans and to make permit decisions. In 2003, this survey was repeated with the same level of effort and coverage. Because the status and distribution can change rapidly for some species particularly in the face of increasing development pressure, we wish to conduct a coastal plain breeding waterbird survey every 5 years vs. every 10 years to better track fluctuations in waterbird breeding population trends and to update distribution maps at a greater frequency. Moreover, we wish to publish the survey data in an electronic Waterbird Breeding Atlas beginning with the 2003 survey and provide updates upon the completion of each subsequent survey.

Objectives:

- To conduct a complete colonial waterbird survey every 5 years to generate breeding population estimates for all colonial waterbird species nesting on the Coastal Plain of Virginia.
- Produce map coverages for all waterbird colonies within the Coastal Plain for each survey completed.
- Develop and publish an electronic colonial waterbird breeding atlas based on the 2003 colonial waterbird survey and update it with each subsequent survey conducted.

Deliverables:

- Colonial waterbird survey every 5 years.
- For each survey completed, digitized maps of all colony locations will de generated with a linked data file containing values of all completed survey form variables to allow users to search both the database and the map product using any variable of interest.
- Electronic colonial waterbird breeding atlas based on the 2003 colonial waterbird survey to be updated with each subsequent survey conducted.

subsequent survey conducted.

Location: Coastal plain of Virginia

Target Species: Black Skimmer, Brown Pelican, Caspian Tern, Common Tern, Double-crested Cormorant, Foster's Tern, Great Blackbacked Gull, Gull-billed Tern, Herring Gull, Laughing Gull, Least Tern, Royal Tern, Sandwich Tern, Black-crowned Night-Heron, Cattle Egret, Glossy Ibis, Great Egret, Green Heron, Great Blue Heron, Little Blue Heron, Snowy Egret, Tri-colored Heron, White Ibis, Yellow-crowned Night-Heron

Timeline: Initiate 2008 breeding season; to be conducted every 5 years.

Lead Organization: VA Dept. of Game and Inland Fisheries (VDGIF) and the Center for Conservation Biology at the College of William and Mary

Partner Organizations: USFWS, TNC - Virginia Coast Reserve, and the Coastal Program at the VA Dept. of Environmental Quality.

Estimated Costs: To be determined.

Current Support: The 2003 Waterbird survey was completed with funding provided by partner organizations and VDGIF. Estimated project cost: \$32,000.00

Unfunded: Colonial Waterbird Breeding Atlas and subsequent surveys

Potential Sources: State Wildlife Grants, others to be determined.

46 Program/Project Name: Urban Waterbird Management Plan for Virginia's Coastal Plain

Submitted by: Ruth Boettcher

Implementation Priority:

Rationale: As development continues to increase in Virginia Beach, along the western shore of the lower Chesapeake Bay, and within the major river systems that drain into the lower Bay (hereafter collectively referred to as the Tidewater Area), so has the occurrence of wading birds colonies (primarily yellow-crowned night herons and great egrets) in urban areas. Colonies located in urban areas are likely subjected to a greater degree of human disturbance (e.g., vehicular traffic, pets, physical structures that may obstruct flight paths to and from feeding areas, artificial lighting, loud urban noise) than colonies located in natural undisturbed areas and as such may experience reduced productivity. Additionally, the presence and foul odor of wading bird guano and dropped prey items in people's backvards has raised concerns over such issues as health and quality of life among community leaders and homeowners in the Tidewater Area. There is a need to develop an urban waterbird management plan that provides community planning departments with guidance on setting aside or restoring undisturbed natural areas to accommodate wading birds breeding colonies that have been displaced by development. Moreover, an urban management plan should include safe and humane actions to be taken to discourage wading birds from establishing colonies in residential communities before the egg laying period. And lastly, an effective plan should include a public outreach and education component that serves to increase public awareness on the ecology, conservation and protection of wading birds and offer communities guidance on how they can help enhance wading bird populations in ways that minimize direct conflicts between birds and humans.

Objectives:	Deliverables:		
To develop an urban management plan that effectively addresses increasing conflicts between colonial nesting wading birds and humans in urban areas.	• Urban management for the Tidewater Area of Virginia, which provides guidance to community planning departments on setting aside or restoring undisturbed natural areas for wading birds, offers safe and humane actions to be taken to discourage wading birds from establishing colonies in residential communities before the egg laying period, and contains information on the ecology, conservation and protection of wading birds to increase public awareness on the importance of these species		
Location: Virginia Beach, Hampton, Williamsburg,	Target Species: Yellow-crowned Night-Heron,		
Chesapeake, Suffolk, Norfolk, Newport News, Portsmouth Great Egret, Great Blue Heron			
and the surrounding area collectively referred to as the			
Tidewater Area.			
Timeline: To be determined	Lead Organization: VA Dept. of Game and Inland Fisheries and USDA Wildlife Services		
Activity: Management			
Partner Organizations: Communities of the Tidewater Area,	College of William and Mary, and The Nature		
Conservancy			
Costs: To be determined			
Current Support: None			
Unfunded: To be determined			
Potential Sources: State Wildlife Grants, others to be determined.			

47	Program/Project Name: Developing a Comprehensive Waterbird Monitoring Plan for the Chesapeake Bay Estuary	Submitted by: Ruth Boettcher
Implementation Priority:		
Rationale: The Chesapeake Bay, which spans across Maryland and Virginia is the largest estuary in the United		
States and supports a vast array of waterbirds. This area of the Bay's watershed is projected to increase its human		
population by 20% to 12 million by the year 2020. Because waterbirds are considered useful indicators of environmental quality, conservation efforts directed towards these species can help protect the areas in which they		
occur. Many waterbird species that utilize the Chesapeake Bay estuary are thought to be declining while the status		

States and supports a vast array of waterbirds. This area of the Bay's watershed is projected to increase its human population by 20% to 12 million by the year 2020. Because waterbirds are considered useful indicators of environmental quality, conservation efforts directed towards these species can help protect the areas in which they occur. Many waterbird species that utilize the Chesapeake Bay estuary are thought to be declining while the status of others is unknown due to a lack of monitoring effort. Most survey work has focused on breeding birds and little effort has been directed towards ascertaining the distribution and abundance of non-breeding birds in the Bay. Finally, no attempt has been made to assess the level of waterbird mortality in the Bay that may be associated with agricultural run-off, incidental capture in fishing gear, or natural causes.

Objectives:	Deliverables:			
Coordinate and develop a long-term waterbird monitoring plan for the Chesapeake Bay that will: • Forge a permanent partnership between MD and VA to ensure coverage of the entire estuary • Consider all breeding and non-breeding species that utilize the Bay • Identify species' habitat requirements throughout the annual cycle • Develop a methodology for assessing waterbird mortality • Ensure that breeding, non-breeding and mortality surveys are conducted with sufficient frequency to generate statistically valid trends and population estimates	 The compilation of existing waterbird data and the identification of data gaps The development of individual monitoring plans for species that are determined to have priority status A division of the watershed into practical units and corresponding monitoring responsibilities A published Comprehensive Chesapeake Bay waterbird monitoring plan that can be easily understood by researchers, wildlife managers, and laymen 			
Location: The Chesapeake Bay estuary, VA & MD	Target Species: waterbirds, waterfowl, shorebirds, etc. (species that are dependent on the Chesapeake bay estuary to complete their life cycle)			
Timeline:	Lead Organization:			
Activity: Monitoring and Research				
Partner Organizations: The Comprehensive Chesapeake Bay Waterbird Monitoring Partnership (Maryland and Virginia-based government agencies, conservation organizations, and universities)				
Costs: \$125,000				
Current Support: \$125,000 (\$93,750 Federal, 31,250 non-federal match)				
Unfunded:				

Potential Sources:

	Program/Project Name: Increase Agency Capacity		Submitted by:
48	48		Steering Committee (SWG list)
Imn	Implementation Priority:		
mp	nementation Friority:		
Rati	ionale:		
Nau	onaic.		
Obj	ectives:	Deliverables:	
	Ensure involvement of appropriate state staff person for specified issues (fisheries, wind power, increading aquaculture, beach renourishment, sandmining, development, recreational conflicts,		of waterbird conservation goals, in state projects
:	erosion control, water supply planning, spill response) and in construction, avoidance measures, evaluating permits, and enforcing regulations on aquaculture industry		
Loc	ation: Mid-Atlantic/Lower BCR 30	Target Species	s: waterbirds
Tim	eline:	Lead Organiz	ation:
Acti	vity: Management		
Par	tner Organizations:	<u> </u>	
Costs:			
Current Support:			
Unf	Unfunded:		
Potential Sources: State Wildlife Grant			

49	49 Program/Project Name: Aquaculture Impact Assessment		Submitted by: Steering Committee (SWG list)	
Imp	Implementation Priority:			
Rati	ionale:			
Objectives: Deliverables:				
	Conduct immediate analysis of current threats from ongoing aquaculture projects where significant activity is underway		gement Practices for e that minimizes impacts to	
	Predict probable impacts of proposed aquaculture development		nt of a wildlife biologist from with aquaculture regulatory	
Location: All states (Mid-Atlantic/Lower BCR 30)		Target Species	s: waterbirds	
Tim	neline:	Lead Organiza	ation.	
1 1111	enne:	Lead Organiza	auon.	
Acti	ivity: Research and Management			
Par	tner Organizations:	<u>I</u>		
Cos	ts:			
Current Support:				
Current Support.				
Unf	unded:			
Potential Sources: State Wildlife Grant				

	Program/Project Name: Atlantic-Wide Breeding Survey		Submitted by:
50	50		Steering Committee
Imp	lementation Priority:		
Rati	ionale:		
Obj	ectives:	Deliverables:	
•	Continue 10-year Atlantic-wide breeding survey		
Loc	ation: Mid-Atlantic/Lower BCR 30	Target Specie	c•
Tim	eline: Ongoing	Lead Organiz	ation:
Acti	vity: Monitoring		
Partner Organizations:			
Cos	ts:		
	•		
Current Support:			
Unf	unded:		
Potential Sources: State Wildlife Grant			

	Program/Project Name: Best Management Practices Manual		Submitted by:
51			Steering Committee
		(SWG list)	
Imp	Implementation Priority:		
Rati	ionale:		
01.	4.	T D 1: 11	
Obj	ectives:	Deliverables:	
•	Prepare manual (e.g. Managers' Toolbox on	Best Mana	gement Practices Manual
	Aquaculture, Disturbance, etc.), for use in federal		
,	and state refuges and management areas		
Loc	ation: Mid-Atlantic/Lower BCR 30	Target Specie	s:
		gg	
Tim	eline:	Lead Organiz	ation:
Acti	vity: Management		
1100	Truj v Irania gement		
Par	tner Organizations:		
Cos	ts:		
000			
Cur	rent Support:		
Unf	unded:		
	unded.		
Pote	ential Sources: State Wildlife Grant		

L

52	Program/Project Name: Contaminants Loads and Effects 52		Submitted by: Steering Committee (SWG list)
Imp	lementation Priority:		, ,
Rati	ionale:		
Obj	ectives:	Deliverables:	
•	Monitor contaminant loads and effects in waterbirds Maintain long-term data and tissue repositories Avoid/reverse habitat changes due to water quality alterations in important waterbird habitat Eliminate toxic discharges (implement EPA's Chesapeake Bay program recommendations)	Target Specie	s: All waterbirds
Tim	eline:	Lead Organiz	ation:
Acti	vity: Research and Management		
Partner Organizations:			
Costs:			
Cur	Current Support:		
Unfunded:			
Potential Sources: State Wildlife Grant			

	Program/Project Name: Disease Studies	Submitted by:	
53	-	Steering Committee	
		(SWG list)	
Imp	Implementation Priority:		
Rati	ionale:		
		T	
Obj	ectives:	Deliverables:	
•	Support existing studies, such as recently		
	discovered algae-related problem; West Nile;		
	increases in vulnerability from colonial nesting		
	·		
Loc	ation: Mid-Atlantic/Lower BCR 30	Target Species:	
Loc	ation that relating bower box 50	Turget opecies.	
Tim	eline:	Lead Organization:	
Acti	vity: Research		
Part	tner Organizations:		
1 41	inci Oigumzations.		
Cos	ts:		
Cur	rent Support:		
Cui	ւշու ծարթոււ		
Unf	unded:		
Pote	ential Sources: State Wildlife Grant		

54	Program/Project Name: Foraging/Food-Chain Dynamics		Submitted by: Steering Committee
Imp	lementation Priority:		
Rati	onale:		
Obj	ectives:	Deliverables:	
	Understand dynamics and effect on colonial		
	populations		
_	A DELLA CAR DODGO	TD 4.C	
Loca	ation: Mid-Atlantic/Lower BCR 30	Target Specie	s:
Tim	eline:	Lead Organiz	ation:
Acti	vity: Research		
Partner Organizations:			
Cos	ts:		
Cur	rent Support:		
	unded:		
Pote	ential Sources: State Wildlife Grant		

55	Program/Project Name: GIS System	Submitted by: Steering Committee (SWG list)	
Imp	lementation Priority:	, /	
Rat	ionale:		
Obj	ectives:	Deliverables:	
	Create patch-based GIS system for evaluating priorities for waterbird habitats as part of a standardized regional approach	GIS system that includes spatial/temporal availability analysis, and habitat classification by ownership	
	Expand past partner lands to all habitats on a region-wide basis (underway at WM)		
•	Map suitable habitat by species		
	Determine ownership and (if targets exist) determine how much of a population target is met on partner lands		
Loc	ation: All states (Mid-Atlantic/Lower BCR 30)	Target Species:	
Tim	eline:	Lead Organization:	
Acti	ivity: Management		
Par	tner Organizations:		
Costs:			
Cur	Current Support:		
Unf	Unfunded:		
Pote	Potential Sources: State Wildlife Grant		

	Program/Project Name: Local Planning		Submitted by:	
56			Steering Committee (SWG	
			list)	
Imp	lementation Priority:			
Rat	ionale:			
Obi	ectives:	Deliverables:		
∪ _v j	ccaves.	Den Clubics.		
•	Encourage local planning (e.g. rolling setbacks and			
	other tools) to ensure important waterbird habitat			
	(including nonbreeding) is not affected by sea level			
İ	rise due to climate change			
•	Develop education/outreach programs			
	5 1 DID 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	Develop BMPs and insert waterbird goals into state			
	erosion control programs			
Loc	ation: Mid-Atlantic/Lower BCR 30	Target Species		
	1113 124 124 125 125 125 125 125 125 125 125 125 125		,	
Tim	neline:	Lead Organiza	ation:	
Acti	ivity: Research and Education			
Par	tner Organizations:			
2 412				
Costs:				
Character & Character and the				
Current Support:				
Unfunded:				
Pote	Potential Sources: State Wildlife Grant			

57	Program/Project Name: Patuxent Monitoring Database		Submitted by: Steering Committee
Imp	olementation Priority:		
Rati	ionale:		
Obj	ectives:	Deliverables:	
•	Organize and contribute existing data to Patuxent Monitoring Database, including threat data to analyze priorities Expand existing regional monitoring database, compiling all state and federal surveys		
Loc	ation: Mid-Atlantic/Lower BCR 30	Target Species	s:
Acti	ivity: Research & Monitoring	Lead Organiz	ation:
Part	tner Organizations:		
Cos	ts:		
Cur	rent Support:		
Unf	unded:		_
Pote	ential Sources: State Wildlife Grant		

L

	Program/Project Name: Evaluating the Impact of hunting on		Submitted by:
58	8 Rails		Steering Committee
	(SWG list)		(SWG list)
Imp	lementation Priority:		
Rati	ionale:		
Obj	ectives:	Deliverables:	
	Monitor and evaluate hunting impact on rail		ion of science-based
	populations	informatio	n into hunting regulations
•	Research rail populations and harvest		
	research rail populations and harvest		
•	Manage/restore wild rice habitat for rails		
Loc	ation: Mid-Atlantic/Lower BCR 30	Target Specie	s: Black Rail, Clapper Rail,
Loc	ation and rading flower best 50		ginia Rail and other poorly
		understood wa	
Tim	eline:	Lead Organiz	ation:
Acti	vity: Research and Management	4	
Activity. Research and management			
Par	Partner Organizations:		
-			
Costs:			
Current Support:			
Unfunded:			
Pote	ential Sources: State Wildlife Grant		
1			

Ruth Boettcher, Dave Brinker, Karen Bennett, David Jenkins Implementation Priority: Rationale: Objectives: Develop targeted monitoring program following standardized regional (or national) approach, and using remote acoustical techniques Location: Mid-Atlantic/Lower BCR 30 Location: Mid-Atlantic/Lower BCR 30 Target Species: Black Rail (especially), American Bittern, American Coot, Clapper Rail, Common Moorhen, King Rail, Least Bittern, Pied-Billed Grebe, Purple Gallinule, Virginia Rail Lead Organization: Costs: Current Support:		Program/Project Name: Marshbird Monitoring F		
Dave Brinker, Karen Bennett, David Jenkins Implementation Priority: Rationale: Objectives: Develop targeted monitoring program following standardized regional (or national) approach, and using remote acoustical techniques Location: Mid-Atlantic/Lower BCR 30 Target Species: Black Rail (especially), American Bittern, American Coot, Clapper Rail, Common Moorhen, King Rail, Least Bittern, Pied-Billed Grebe, Purple Gallinule, Virginia Rail Timeline: Activity: Monitoring Partner Organizations: Costs: Current Support:			Steering Committee,	
Rationale: Karen Bennett, David Jenkins	59		•	
Implementation Priority: Rationale: Objectives: Develop targeted monitoring program following standardized regional (or national) approach, and using remote acoustical techniques Location: Mid-Atlantic/Lower BCR 30 Target Species: Black Rail (especially), American Bittern, American Coot, Clapper Rail, Common Moorhen, King Rail, Least Bittern, Pied-Billed Grebe, Purple Gallinule, Virginia Rail Timeline: Activity: Monitoring Partner Organizations: Costs: Current Support:				
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Objectives: Develop targeted monitoring program following standardized regional (or national) approach, and using remote acoustical techniques Location: Mid-Atlantic/Lower BCR 30 Target Species: Black Rail (especially), American Bittern, American Coot, Clapper Rail, Common Moorhen, King Rail, Least Bittern, Pied-Billed Grebe, Purple Gallinule, Virginia Rail Timeline: Lead Organization: Costs: Current Support:	_			
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Develop targeted monitoring program following standardized regional (or national) approach, and using remote acoustical techniques Location: Mid-Atlantic/Lower BCR 30 Target Species: Black Rail (especially), American Bittern, American Coot, Clapper Rail, Common Moorhen, King Rail, Least Bittern, Pied-Billed Grebe, Purple Gallinule, Virginia Rail Timeline: Lead Organization: Costs: Current Support:				
Develop targeted monitoring program following standardized regional (or national) approach, and using remote acoustical techniques Location: Mid-Atlantic/Lower BCR 30 Target Species: Black Rail (especially), American Bittern, American Coot, Clapper Rail, Common Moorhen, King Rail, Least Bittern, Pied-Billed Grebe, Purple Gallinule, Virginia Rail Timeline: Lead Organization: Costs: Current Support:				
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Develop targeted monitoring program following standardized regional (or national) approach, and using remote acoustical techniques Location: Mid-Atlantic/Lower BCR 30 Target Species: Black Rail (especially), American Bittern, American Coot, Clapper Rail, Common Moorhen, King Rail, Least Bittern, Pied-Billed Grebe, Purple Gallinule, Virginia Rail Timeline: Lead Organization: Costs: Current Support:				
Develop targeted monitoring program following standardized regional (or national) approach, and using remote acoustical techniques Location: Mid-Atlantic/Lower BCR 30 Target Species: Black Rail (especially), American Bittern, American Coot, Clapper Rail, Common Moorhen, King Rail, Least Bittern, Pied-Billed Grebe, Purple Gallinule, Virginia Rail Timeline: Lead Organization: Costs: Current Support:				
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Develop targeted monitoring program following standardized regional (or national) approach, and using remote acoustical techniques Location: Mid-Atlantic/Lower BCR 30 Target Species: Black Rail (especially), American Bittern, American Coot, Clapper Rail, Common Moorhen, King Rail, Least Bittern, Pied-Billed Grebe, Purple Gallinule, Virginia Rail Timeline: Lead Organization: Costs: Current Support:				
standardized regional (or national) approach, and using remote acoustical techniques Location: Mid-Atlantic/Lower BCR 30 Target Species: Black Rail (especially), American Bittern, American Coot, Clapper Rail, Common Moorhen, King Rail, Least Bittern, Pied-Billed Grebe, Purple Gallinule, Virginia Rail Timeline: Lead Organization: Costs: Current Support:	Obj	ectives:	Deliverables:	
standardized regional (or national) approach, and using remote acoustical techniques Location: Mid-Atlantic/Lower BCR 30 Target Species: Black Rail (especially), American Bittern, American Coot, Clapper Rail, Common Moorhen, King Rail, Least Bittern, Pied-Billed Grebe, Purple Gallinule, Virginia Rail Timeline: Lead Organization: Costs: Current Support:				
Location: Mid-Atlantic/Lower BCR 30 Location: Mid-Atlantic/Lower BCR 30 Target Species: Black Rail (especially), American Bittern, American Coot, Clapper Rail, Common Moorhen, King Rail, Least Bittern, Pied-Billed Grebe, Purple Gallinule, Virginia Rail Lead Organization: Partner Organizations: Costs: Current Support:				
Location: Mid-Atlantic/Lower BCR 30 Target Species: Black Rail (especially), American Bittern, American Coot, Clapper Rail, Common Moorhen, King Rail, Least Bittern, Pied-Billed Grebe, Purple Gallinule, Virginia Rail Lead Organization: Partner Organizations: Costs: Current Support:				
American Bittern, American Coot, Clapper Rail, Common Moorhen, King Rail, Least Bittern, Pied-Billed Grebe, Purple Gallinule, Virginia Rail Timeline: Lead Organization: Partner Organizations: Costs: Current Support:		using remote acoustical techniques		
American Bittern, American Coot, Clapper Rail, Common Moorhen, King Rail, Least Bittern, Pied-Billed Grebe, Purple Gallinule, Virginia Rail Timeline: Lead Organization: Partner Organizations: Costs: Current Support:				
American Bittern, American Coot, Clapper Rail, Common Moorhen, King Rail, Least Bittern, Pied-Billed Grebe, Purple Gallinule, Virginia Rail Timeline: Lead Organization: Partner Organizations: Costs: Current Support:	Loc	ation: Mid-Atlantic/Lower BCR 30	Target Species: Black Rail (especially)	
Rail, Common Moorhen, King Rail, Least Bittern, Pied-Billed Grebe, Purple Gallinule, Virginia Rail Timeline: Lead Organization: Partner Organizations: Costs: Current Support:	Loc	ation. Wild Midnite Bower Belt 30		
Bittern, Pied-Billed Grebe, Purple Gallinule, Virginia Rail Timeline: Activity: Monitoring Partner Organizations: Costs: Current Support:				
Timeline: Activity: Monitoring Partner Organizations: Costs: Current Support:				
Timeline: Activity: Monitoring Partner Organizations: Costs: Current Support:				
Partner Organizations: Costs: Current Support:	Tim	neline:		
Partner Organizations: Costs: Current Support:				
Costs: Current Support:	Acti	ivity: Monitoring		
Costs: Current Support:				
Current Support:	Partner Organizations:			
Current Support:				
Current Support:	Con	40.		
	Cos	ts:		
	Cur	rent Sunnort:		
Unfunded:		Tent Support.		
Cinanaca.	Unf	Unfunded:		
Potential Sources: State Wildlife Grant	Pote	ential Sources: State Wildlife Grant		
2 Overland South Country States	Ī			

61	Program/Project Name: Filling Significant Baseline Data Gaps for	Submitted by:
0.	Atlantic Red-throated Populations	Chris DeSorbo

Rationale: Declines have been noted for several Red-throated Loon populations around the world. A 53% decline in Alaska, and a notable decline across the Red-throated loon's European breeding range has recently drawn increasing international attention to this species. Causes for declines are poorly understood for most intensively studied populations, while the status of many populations remain unknown due to a significant data gap. Red-throated Loon populations along the Atlantic U.S. and Canada are perhaps one of the most poorly studied populations of this species globally.

A variety of anthropogenic threats impact Red-throated Loon populations on both wintering and breeding areas. By-catch from Atlantic gill-net fisheries has resulted in substantial losses to birds wintering in the mid-Atlantic, Forsell (1999) found an estimated 2,387 birds (68% of which were Red-throated Loons) were killed in gill nets and 825 washed up on beaches. This total is close to some estimates of the entire Red-throated Loon population of Shetland. (600 pairs). Coastal oil spills present a significant risk to Atlantic wintering waterbird populations. Oil spills such as the recent spill in Buzzard's Bay, Massachussetts (2003) or the North Cape in Rhode Island (1996) could have substantial impacts on populations, many of which are not sufficiently linked with their northern breeding areas. Exposure of Red-throated Loon populations to Persistent Bioaccumulative Toxins such as mercury, PCBs and DDT is widely unknown and should be of concern for some populations, such as those feeding in the Gulf of the St. Lawrence River. Studies documenting Red-throated Loon migration patterns, morphometrics, genetics information, and contaminant exposure are widely lacking for Atlantic populations and limits the implementation of conservation and management plans. We propose to study Red-throated Loon populations on their wintering and breeding grounds, and during migration to continue developing much of the baseline information that is currently lacking for this species.

Objectives:

- Establish fall & spring coastal Red-throated Loon migration monitoring station(s) and conduct counts
- Capture, band (USFWS/color) sample (blood and feathers) and gather baseline morphometrics, genetics, and stable isotope data on Northeast Atlantic breeding and wintering Red-throated loon populations
- Determine baseline exposure levels and risk of Redthroated Loons to environmental contaminants
- Evaluate Red-throated Loon diet and trophic level using stable isotope analysis of blood and feathers
- Utilize archived loon carcasses from recent oil spills and fishery-mortalities to gather morphometrics, molt, and genetic marker information on winter loon kills

Deliverables:

- Baseline data on timing and abundance during migration for fall and spring migrants
- Increase understanding of migratory connectivity using banding, morphometrics, genetic markers, and stable isotope analysis information that can establish baseline data for Atlantic populations and be used in oil spill/fishery mitigation efforts
- Toxicological risk assessment of sampled Red-throated Loon populations
- Baseline data on diet and trophic position

Location: Northeastern US coast, Chesapeake Bay area, and Atlantic Canada

Timeline: Initiated summer 2003; long-term

Target Species: Red-throated Loon

Lead Organization: BioDiversity Research

Institute: www.briloon.org

Activity: Monitoring and Research

Partner Organizations: US Fish and Wildlife Service, Canadian Wildlife Service, Maine Department of Inland Fisheries and Wildlife, Loon Preservation Committee, Cape May Bird Observatory (potential), Manomet Bird Observatory (potential), Buffalo State College

Costs: \$175,000 - \$200,000 over 3 yrs.

Current Support: \$2500 grant received (North American Loon Fund) for pilot study conducted in 2003

Unfunded: total project cost currently unfunded

Potential Sources: NRDA oil spill fund, Sea Grant Pgm (national and state), state oil spill funds, USFWS

62	Program/Project Name: Gulf of Maine Seabird Contaminant	Submitted by:
02	Assessment Network (GOMSCAN)	Wing Goodale

Potential Sources: To be determined

Rationale: GOMSCAN is a standardized, long-term investigation to determine acute and chronic changes in contaminant profiles. Overall emphasis is on PBTs with an initial, three-year focus on profiling the spatial and temporal distributions of mercury (Hg). This effort is strongly patterned after a successful program directed by the Canadian Wildlife Service (CWS) in the Maritimes and Labrador for the past 35 years and will be linked to other relevant programs. Mercury analysis is initially emphasized because (1) it is a leading regional, continental, and global environmental issue, (2) trends in some seabird species in eastern North America have significantly increased since the 1970s (even though atmospheric deposition trends in the U.S. are actually declining), and (3) analysis is relatively inexpensive and can be subsidized by BioDiversity Research Institute (BRI) and Texas A&M Trace Element Research Lab.

The sampling effort will focus on five species, placing a priority on Leach's storm-petrel. The storm-petrel is an offshore surface feeder (zooplankton, small-sized fish) and its mercury levels likely represent global atmospheric deposition trends that may be increasing. In fact, CWS studies have documented a significant increase in egg Hg levels over an approximately 30-year period in the Canadian Maritimes and average exposure levels are now in established hazard ranges for birds (i.e., >0.5 ppm, ww).

Objectives:	Deliverables:	
 Establish suitable target seabird species, study islands, and methodologies that can be used to determine long-term 	 Comparison of Hg levels (and other PBTs) with relevant programs 	
temporal and spatial trends of Hg in marine environments	 Identification of potential riverine and/or cove point sources of Hg 	
 Opportunistically collect relevant tissues from non-target seabird species to assess Hg risk to breeding 	 Ability to assess risk in a spatially-explicit way 	
populations in the Gulf of Maine	Ability to monitor Hg trends over time	
 Compare differences in tissue Hg levels among three general areas: (a) major river outlets, (b) nearshore areas, and (c) offshore areas 	Ability to archive tissues for future assays	
 Archive tissues for future potential contaminant, genetic, and isotope analysis 		
Location: Gulf of Maine	Target Species: Leach's Storm-Petrel, Double-crested Cormorant, Common Tern, Atlantic Puffin, Common Eider	
Timeline: 2005 (complete pilot study), 2006	Lead Organization: BioDiversity Research Institute	
complete sampling effort (repeated every 5 years)	www.briloon.org	
Activity: Research		
Partner Organizations: National Audubon Society		
Costs: 2005 (\$25,000), 2006 (\$30,000) for a total of \$55,000		
Current Support: None		
Unfunded: \$55,000		

63	Program/Project Name: Loon Web Camera	Submitted by:
03		Wing Goodale

Unfunded: \$35.000

Potential Sources: MBNA Foundation, Maine Community Foundation

Rationale: BioDiversity Research Institute, began in 2002 the Loon Web cam. Using state of the art technology, BRI over the last two years has recorded and uploaded live to the internet nest construction, egg laying, incubation, egg hatching, and egg predation. The project has been a complete success logging up to 6000 page views per day from people on every continent with the exception of Antarctica. Not only has this remote controlled robotic infrared camera provided an extraordinary educational opportunity for adults and school groups, but it also has provided vital scientific data: year one we recorded the female incubating the eggs 95% at night and in year two we recorded egg predation by mink. As successful as this project has been, it has been limited in scope by only recording one pair of loons. We seek to expand this project by adding a second system to monitor another banded loon pair.

One of Maine's greatest natural resources is its lakes, with the common loon serving as both a symbol of the lakes and an indicator of the their health. For lakes to be protected, citizens need to be educated about threats to lakes and how they can mitigate them, and scientists need as much information as possible about lake ecology. Both of these important objectives are fulfilled with the loon Web cam.

By accessing the Web cam, Maine citizens will watch the intimate lives of the loons, personally connect with the birds, and read accompanying literature that explains loon threats. This personal connection will afford people a context to relate to and hopefully act in when wildlife becomes threatened. Loons face many threats, and potentially the loon Web cam will motivate citizens to act against them, by, for example, vigilantly checking their boats for milfoil as well as insisting on using non-lead sinkers (a loon that has ingested lead will die within a week).

In addition, BRI will record the entire nesting process, review those tapes, and assemble the data into a scientific paper. Each published scientific paper is vital to the understanding of loon natural history, which is critical as BRI quantifies the impacts of mercury, lake development and lead on these charismatic birds. The last summer's data, never before recorded with such accuracy, were analyzed and prepared for a scientific paper that will be submitted to *The Canadian Field Naturalist*. By integrating science and education, BRI is able to make significant steps forward in protecting the loons and the lakes on which they live.

Objectives:	Deliverables:
Set up second loon web camera	Web page with a live image of a nesting loon pair with supporting educational materials
 Promote lake conservation and loon 	
protection by personally connecting	 Entire incubation recorded on time-lapse
people to loons	VCR, reviewed, summarized, and submitted to a peer reviewed journal
 Collect publishable scientific data on 	
loon nesting behavior	
Location: Mid-coast Maine	Target Species: Common Loon
Timeline: 2005 – 2010. Equipment should function	Lead Organization: BioDiversity Research Institute
for at least 5 years	www.briloon.org
Activity: Education and Research	
Partner Organizations: VillageSoup, Maine Audubo	n
Costs: \$35,000	
Current Support: Currently exploring options	

	Program/Project Name: Seabird Monitoring in the	Submitted by:		
61	Archipelago National Park Reserve and the Forillon National Park Quebec Waterbird Plan of Canada			
04				
Imp	lementation Priority:			
Dati	anala.			
Kau	onale:			
The	se monitoring programs are carried out by teams of to	echnicians and bi	ologists from Parks Canada in	
	r to better understand the seabird trends within the pa			
	rded in the BIOMQ and consolidate our knowledge of		•	
01.1		.		
Obj	ectives:	Deliverables:		
	Consolidation of the knowledge of seabirds in BCR	The develop	pment and implementation of a	
	8 and 14		nitoring program in the	
			chipelago National Park	
			d the Forillon National Park	
Loc	ation: The Mingan Archipelago National Park	Target Species	: Colonial waterbirds	
	Reserve and the Forillon National Park of Canada			
(BC	Rs 8 and 14)			
Tim	eline: Every three years, but varies per species		ation: Canadian Wildlife	
A of:	vitra Monitorino	Service?		
Acu	vity: Monitoring			
Partner Organizations:				
- W. VV				
Costs:				
Cur	Current Support:			
Unfunded:				
Omunucu.				
Pote	ential Sources:			

	Program/Project Name: Seabird Monitoring in the St. Lawrence		Submitted by:	
65			Quebec Waterbird Plan	
Imp	lementation Priority:			
Rati	ionale:			
These large geographic entities are part of BCR 14. The seabird colonies of BCR 14 have been surveyed according to a more or less regular time interval due to a lack of resources. We need to establish a 5-year survey interval for each of these geographic regions and survey seabird nesting in the most important colonies of this BCR (see the important sites of BCR 14 in section 2.0) (last partial survey, St. Lawrence Estuary: 2001, expected: 2006; last survey, Gaspé Peninsula: 2002, expected: 2008; last partial survey, Magdalen Islands: 2000; expected 2007).				
Objectives: Deliver		Deliverables:		
	Surveys of important colonies in BCR 14	interval	ishment of a 5-year survey	
	ation: The St. Lawrence Estuary, the Gaspé insula and the Magdalen Islands (BCR 14)	Target Species	s: Colonial waterbirds	
Tim	neline: Five year intervals	Lead Organization: Canadian Wildlife Service?		
Acti	Activity: Monitoring			
Partner Organizations:				
Costs:				
Current Support:				
Unfunded:				
Pote	ential Sources:			

66	Program/Project Name: Monitoring of the Northern Gannet Population in the Gulf of St. Lawrence		Submitted by: Quebec's Waterbird Plan	
	1 optimion in the Guil of St. Lawrence			
Imp	Implementation Priority:			
Rati	ionale:			
Rationale: This survey is part of CWS National Seabird Program established in 1971(Nettleship 1993; 1997) and recurs every 5 years. Since there are only 6 colonies across Canada, three of which are in Québec, all colonies are surveyed during the same season jointly by the Québec and Atlantic regions. This species is also used as an indicator species of the St. Lawrence marine ecosystem's health status in the monitoring phase of the SLAP-III. Data on productivity and contamination of the Northern Gannet of Bonaventure Island area also recorded. Until now, this monitoring program has respected the five year time span since 1967. The research division, on the other hand, would need to be supported by additional resources (last survey: 1999, expected: 2004).				
Objectives: Deliverables:				
	Monitoring surveys for the Northern Gannett in the Gulf of St. Lawrence	• The contin intervals	uation of 5-year survey	
Location: The Gulf of St. Lawrence (BCR 14)		Target Species: Northern Gannett		
Timeline: Every 5 years – next survey in 2009		Lead Organization: Canadian Wildlife Service National Seabird Program		
Acti	ivity: Monitoring			
Partner Organizations:				
Costs:				
Current Support:				
Unfunded:				
Pote	ential Sources:			

	D /D 1 / N D 1 / N / '	C.I. D'	G 1 14 11	
67	Program/Project Name: Population Monitoring of the Ring-billed Gull in BCR 13 and 14		Submitted by: Quebec Waterbird Plan	
Imp	Implementation Priority:			
Rati	ionale:			
This survey is carried out every three years within the framework of the monitoring of overabundant species. Due to the numerous complaints concerning the invasion of gulls in urban areas, CWS, Québec region, follows the evolution of Ring-billed Gull populations in BCRs 13 and 14 because of their close links to urban environments. This survey is very important to support and justify gull control when necessary.				
Objectives:		Deliverables:		
	A better understanding of Ring-billed Gull populations to support and justify gull control where necessary	_	etion of a Ring-billed Gull ry three years	
Loc	ation: BCRs 13 & 14	Target Species	s: Ring Billed Gull	
Timeline: Next survey in 2006, three year intervals		Lead Organization: Canadian Wildlife Service – Quebec Region		
Activity: Monitoring				
Partner Organizations:				
Costs: \$25,000 per year (Canadian)				
Current Support:				
Unfunded:				
Pote	ential Sources:			

68	Program/Project Name: Population Monitoring of crested Cormorant in BCR 13 and 14	f the Double-	Submitted by: Quebec Waterbird Plan
Implementation Priority:			
Rat	ionale:		
This species is protected under provincial government legislation. In the last couple of years, an increase in the North American Double-crested Cormorant population has raised questions among Lake Saint-Pierre commercial and sport fishermen concerning a possible competition for resources. An increase in the Double-crested Cormorant population in the St. Lawrence Estuary has also affected the nesting habitat of other colonial bird species which justified population control for this species in the late 80s and early 90s. To support and justify these controls, FAPAQ wants to maintain a survey for this species in BCR 13 and 14.			
Obj	ectives:	Deliverables:	
	A better understanding of Double-crested Cormorant populations to support and justify control where necessary	Double-cr	ested Cormorant Surveys
Loc	ation: BCR 13 and 14	Target Specie	s: Double-crested Cormorant
	vity: Monitoring	Ressources naturelles, de la Faunc	
		Tures (TTITT)	
Par	tner Organizations:		
Cos	ts: \$25,000 per year (Canadian)		
Current Support:			
Unfunded:			
Pote	ential Sources:		

	Program/Project Name: Monitoring of Non-colonial Waterbirds Submitted by:		
69	· · ·		Quebec Waterbird Plan
	·		
Imp	elementation Priority:		
Rat	ionale:		
There are currently few monitoring programs covering waterbird species other than seabirds. As opposed to seabirds, which usually nest in colonies, several waterbird species are found in isolated pairs. Very low densities require survey techniques which are adapted to scattered distributions. We must therefore plan on several years of development and practice to implement monitoring systems for these species. Even if certain monitoring programs already exist for particular species, resources to maintain them and improve their contents are deficient.			
Obj	ectives:	Deliverables:	
	The improvement of non-colonial waterbird monitoring systems already in place		opment and implementation of oring systems for non-colonial
Loc	ation: Quebec	Target Species	s: Non-colonial waterbirds
Tim	eline:	Lead Organiza Service	ation: Canadian Wildlife
Activity: Monitoring			
Partner Organizations:			
Costs:			
Current Support:			
Unfunded:			
Pote	ential Sources:		

70	Program/Project Name: Monitoring Great Blue H in Quebec	eron Colonies	Submitted by: Quebec Waterbird Plan
Imp	Implementation Priority:		
Rat	ionale:		
In connection with the Conservation Law of the Québec government and its regulation on wildlife habitats, FAPAQ conducts surveys for all heron colonies on the entire Québec territory every five years. This survey is also a monitoring element within the framework of SLAP (Monitoring program of SLAP-III) and is carried out jointly with contaminant monitoring directed by the Canadian Wildlife Service.			
Obj	ectives:	Deliverables:	
	Surveys for all Great Blue Heron colonies in Quebec Contaminant monitoring		nuation of Great Blue Heron ery five years
Loc	ation: BCR 12, 13 & 14	Target Specie	s: Great Blue Heron
	neline: Every five years	Lead Organiz Wildlife Service	ration: FAPAQ, Canadian
Act	ivity: Monitoring		
Partner Organizations:			
Costs:			
Current Support:			
Unfunded:			
Potential Sources:			

71 Program/Project Name: Canadian Lake	Loon Survey Submitted by: Quebec Waterbird Plan		
Implementation Priority:			
Rationale:			
The Canadian Lake Loon Survey is supervised by Bird Studies Canada. The Québec province is only partially covered in time and space due to the absence of a regional coordinator for Bird Studies Canada. This monitoring program is carried out by volunteers who send their observations to Bird Studies Canada. The authorities of La Mauricie National Park of Canada also have a monitoring program on the Common Loon which began in 1987.			
Objectives:	Deliverables:		
An ongoing survey of Common Loons on C Lakes	Canadian		
Location: Canada	Target Species: Common Loon		
Timeline:	Lead Organization: Bird Studies Canada		
Activity: Monitoring	Bird Studies Canada		
Partner Organizations: La Mauricie National Park of Canada			
Costs:			
Current Support:			
Unfunded:			
Potential Sources:			

72	Program/Project Name: Marsh Monitoring Prograto Quebec	Submitted by: Quebec Waterbird Plan, BCR 14 Bird Plan, Contact: Karl Levesque
Imp	lementation Priority:	•
Rationale: In the Great Lakes region, the bi-national Marsh Monitoring Program (MMP) (www.bsc-eoc.org/mmpmain.html) aims to survey bird species of Canadian and American wetlands. It would be appropriate to link a future survey program on waterbirds associated with Québec wetlands with the MMP via a Bird Studies Canada coordinator. The sites to be surveyed could consist of the existing National Wildlife Reserves in BCR 13 and 14 as well as certain provincial and federal parks in the BCR situated farther north. Exceptional environments should also be surveyed, such as Rupert Bay for example, where we find an important population of Yellow Rail which is a species at risk.		
Obj	ectives:	Deliverables:
•	Continue marsh surveys in the Great Lakes Region Link the Quebec MMP to the MMP already in place in the Great Lakes Region	The development and implementation of a wetland bird monitoring program for Quebec which is linked to the MMP in the great lakes region
part and the	ation: The Great Lakes region with expansion to s of Quebec: National Wildlife Reserves in BCR 13 14 as well as certain provincial and federal parks in BCRs situated farther north, exceptional ironments such as Rupert Bay	Target Species: Marshbirds and wadingbirds (esp. Yellow Rail)
Tin	neline: In progress	Lead Organization: Bird Studies Canada,

Partner Organizations: U.S. Great Lakes Protection Fund, the U.S. Environmental Protection Agency, the Great Lakes 2000 Cleanup Fund

Canadian Wildlife Service

Costs:

Current Support:

Activity: Monitoring

Unfunded:

Potential Sources: U.S. Great Lakes Protection Fund, the U.S. Environmental Protection Agency, the Great Lakes 2000 Cleanup Fund

	Program/Project Name: Recovery of Tern colonies of the Gulf	Submitted by:
72	of St. Lawrence	Quebec Waterbird Plan,
/3		BCR14 Plan, Contact:
		Jean-Francois Rail
-	T 4 4 TD 1 14	

Implementation Priority:

Rationale:

The Common Tern populations of the Gaspé region have declined considerably over the past ten years. Gull control techniques are being experimented to restore the Common Tern colony of Sandy Beach in the Gaspé region as well as in the Magdalen Islands, where Red Fox predation and gull invasion in areas favorable for the Common, Arctic and Roseate Tern (an endangered species) are factors which prevent their respective populations from increasing. Parallel to these measures taken to restore these populations, there should be long term research on tern reproductive success and survival rates. These studies would enable us to measure the effectiveness of the interactions carried out in the colonies

In BCR 14, we find several favorable habitats for the establishment of large tern colonies. In the Gaspé region, there is presently a project to restore the Common Tern at Sandy Beach (Gaspé Bay) which requires varied management techniques such as predator elimination either by trapping or electric fence installation (Red Fox) or the installation of enclosures made of monofilament treillis which prevents gulls from establishing in habitats favorable for tern nesting. There are other sites in the Gaspé region which should be managed to restore Common Tern colonies which were once thriving such as the Carleton Beach Ridge and the Saint-Omer MBS. At the Magdalen Islands, the colonies of Paquet Island, Îlot du Chenal, Baie du Portage Island (Havre-aux-Basques) and the 2nd islet of Point-aux-Loups should also be the object of management for tern colony recovery. Let us mention that three species nest at the Magdalen Islands: the Common Tern, the Artic Tern and the Roseate Tern, a species at risk. Colony locations in Prince Edward Island and New Brunswick must also be looked at.

Objectives:	Deliverables:	
 Experimentation with predator control techniques for Red Fox and gulls Long term research on tern reproductive success and survival rates 	Tern restoration at nesting sites facilitated by predator elimination	
Location: The Gaspe Peninsula and the Magdalen	Target Species: Common Tern, Arctic Tern,	
Islands, Quebec. Also select locations in Prince	Roseate Tern	
Edward Island and New Brunswick		
Timeline:	Lead Organization: Canadian Wildlife Service?	
Activity: Research and management		
Partner Organizations:		
Costs: \$20,000 per year (Canadian)		
Current Support:		
Unfunded:		
Potential Sources:		

74	Program/Project Name: Predator Control on Islands in Southeastern Canada	Submitted by: Quebec Waterbird Plan
-		

Implementation Priority:

Rationale:

Predation by the Red Fox is a recurrent problem on islands of the St. Lawrence Estuary (BCR 14) like the Long Pèlerin, the Petit Pèlerin, the Gros Pèlerin, the Gros Pot and the Pot du Phare where the majority of Razorbills of the St. Lawrence Estuary are found. The Société Duvetvor Ltée has made efforts to eliminate them until now, but without substantial and sustained help, we cannot guarantee control efficiency.

On the North Shore (BCR 8), the predation problem is particularly important in the following three sanctuaries: Baie des Loups, Sainte-Marie Islands and Brador Bay. Efforts are currently under way to control the Red Fox at the Sainte-Marie Islands, which is not the case for the other two sanctuaries.

At Brion Island, a Provincial Ecological Reserve, Red Fox control would allow the recovery of the Leach's Storm-Petrel colony and would most certainly be favorable for the Atlantic Puffin.

Objectives:	Deliverables:	
 Control of the red fox at important waterbird nesting sites The reduction of predation by the red fox at important Razorbill nesting sites 	The recovery of a Leach's Storm-Petrel on Brion Island through Red Fox control	
Location: The islands of the St. Lawrence Estuary, and	Target Species: Razorbill, Leach's Storm-	
in the sanctuaries of the North Shore and Brion Island	Petrel, Atlantic Puffin	
(Magdalen Islands), Quebec		
Timeline:	Lead Organization: Canadian Wildlife Service?	
Activity: Management		
Partner Organizations:	<u> </u>	
Costs: \$100,000 per year (Canadian)		
Current Support:		
Unfunded:		
Potential Sources:		

77	Program/Project Name: Black Duck Joint Venture	BCR 14 Plan Contacts: Daniel Brodage, Christine Lepage
Imp	lementation Priority:	Christine Lepuge
Rat	ionale:	
The urgency of rebuilding Black Duck populations led the NAWMP to set up the Black Duck Joint Venture (BDJV) (www.qc.ec.gc.ca/faune/sauvagine/html/bdjv.html). The status of the American Black Duck remains a source of concern since it continues to face heavy hunting pressure, habitat loss and degradation, and competition from the Mallard. Even though designed to optimize American Black Duck counts, this helicopter survey also provides breeding pair trends and population estimations for 20 other species breeding in Quebec. The BDJV mandate is to facilitate and co-ordinate the gathering of information to improve our knowledge of this and other species and guide conservation and management decisions. Three programs were established under the venture: a survey program, banding program and research program.		
Obj	ectives:	Deliverables:
•	Annual helicopter breeding pair survey in boreal forest (8 plots in BCR 14 on the Gaspé peninsula) Ground breeding pair monitoring along the shore of the St. Lawrence	
Loc	ation: Quebec	Target Species: Waterfowl (20 species) and Common Loon
	ivity: Research and Monitoring	Lead Organization: Canadian Wildlife Service
Partner Organizations:		
Costs:		
Current Support:		
Unfunded:		
Potential Sources:		

78	Program/Project Name: Species At Risk Program	for Canada	Submitted by: BCR 14 Plan Contacts: Michel Robert François Shaffer
Impl	lementation Priority:		1 3
Ratio	onale:		
plant mona At Ri throu	ording to the Committee on the Status of Endangered and animal species at risk in Canada. The Whoopin arch and the blue ash are just a few examples. Anoth lisk Program (www.speciesatrisk.gc.ca) seeks to moraghout Canada and develop management plans for splighted here.	g Crane, the Noner 12 species are nitor and research	rth Atlantic right whale, the e already extinct. The Species h populations of species of risk
Obje	ectives:	Deliverables:	
• T	Monitoring of use of nesting sites by populations of bird species at risk in BCR 14 The development of recovering plans for species at risk	populationResearch of genetic stu	g of Roseate Terns on the
Loca	ation: Canada		s: Horned Grebe, Roseate Tern neye, Harlequin Duck, Piping
Time	eline: Ongoing		cation: Canadian Wildlife ciation Quebecoise des Groupes
Activ	vity: Research, management, monitoring	D'Ornithologues (AQGO)	
Part	ner Organizations:		
Cost	s:		
	rent Support: Endangered Species Recovery Fund, vardship Program, Ecological Gifts, EcoAction	Interdepartmenta	al Recovery Fund, Habitat
Unfu	unded:		

Potential Sources:

	Program/Project Name: Cape Breton Beached Bird Survey	Submitted by:
79		BCR 14 Plan
		Contact: Becky Whittam
_		

Implementation Priority:

Rationale:

Hundreds of ships pass through the waters off the Atlantic Canadian coast daily. This traffic creates a real problem for birds. In particular, the illegal dumping of oily bilge waste leads to chronic petroleum pollution. Oil pollution poses a great threat to pelagic seabirds, the bodies of which are separated from near zero-degree water by a natural "survival suit" of feathers.

Latest estimates from the Canadian Wildlife Service, who are partnering with Bird Studies Canada to launch the Cape Breton Survey (www.bsc-eoc.org/regional/acbeachbird.html), indicate that about 300,000 birds die each year as a result of chronic oil pollution. This is comparable to the impact of the Exxon Valdez spill each year!

Usually the first sign of impact from this oil is the appearance of dead and dying birds on beaches. By systematically monitoring birds on beaches - oiled and clean - we can detect fluctuations in both the amount of oil pollution occurring in the Atlantic, as well as its effect on waterbirds. This type of information is extremely important in helping to eliminate the problem.

Cape Breton is an area of extreme risk for birds oiled at sea, due to both the heavy shipping traffic through the Cabot Strait and the concentrations of marine birds that use this water in winter. Beached bird survey participants will be helping to develop a baseline index of oiled birds in Cape Breton. If large spills occur, this baseline can be used to estimate the impact of the spills on seabirds. Beached bird survey data can also be used to determine what species of seabirds are most affected by oiling, what time of year the problem is most severe, and whether the proportion of oiled birds washing up on beaches is changing over time.

A beached bird survey has been in place in southeastern Newfoundland since 1984. Results of this survey indicate that the proportion of beached birds that are oiled has been increasing steadily, at a rate of 3% per year, since the survey began. While this may be due in part to a decrease in clean dead birds (due to declining murre hunts and milder weather conditions in winter), there is still a relationship between ship traffic volume and the proportion of oiled birds. There is clearly a great need to expand the data collection and monitor beached birds along other parts of Canada's Atlantic coast.

Objectives:	Deliverables:
Implement a beached bird survey on Cape Breton, NS	Monthly beached bird surveys performed by volunteers on Cape Brenton, NS
Location: Cape Breton, NS	Target Species: Seabirds
Timeline: Monthly surveys	Lead Organization: Bird Studies Canada
Activity: Monitoring	
Partner Organizations: Canadian Wildlife Service	
Costs:	
Current Support:	
Unfunded:	
Potential Sources:	· · ·

	Program/Project Name: Isle au Haute Acquisition			
80		BCR 14 Bird Plan		
		Contacts: Brad Allen,		
Imn	lementation Priority:	Bruce Connery		
mp	iementation i Hority.			
Rati	ionale:			
Obj	ectives:	Deliverables:		
	Acqusition in association with refuge			
	• Easements			
	Harvest managements			
	Invertebrate management			
	Oil spill planning			
Loc	ation: Isle au Haute, Maine	Target Species: Waterbirds, shorebirds, landbirds, waterfowl		
		landofrds, waterfowr		
Tim	eline:	Lead Organization:		
Acti	vity: Acquisition			
Par	tner Organizations:			
Cos	Costs:			
Current Support:				
T 1 P	The firm Jod.			
Unfunded:				
Potential Sources: North American Wetlands Conservation Act Grants Program, State Wildlife Grants,				
land trusts, Pew trusts				

81	81 Program/Project Name: Kennebec/ Merrymeeting Bay(MMB) Acquisition		Submitted by: BCR14 Bird Plan Contact: Sandy Ritchie		
Imp	lementation Priority:		,		
Rati	onale:				
Obj	ectives:	Deliverables:			
	 Acquisition/ easements Enforcing discharge permits Outreach 				
Loca	ation: Kennebec/MMB, Maine	Target Specie waterfowl	s: waterbirds, shorebirds,		
Tim	eline:	Lead Organiz	ation:		
Acti	vity: Acquisition, Education/Outreach				
Partner Organizations:					
Costs:					
Cur	rent Support:				
Unf	unded:				
	ential Sources: North American Wetlands Conservat land trusts	ion Act Grants I	Program, State Wildlife Grants,		

82	Program/Project Name: Cobscock Bay Acquisition 82		Submitted by: BCR14 Bird Plan, Contact: Tom Hodgman		
Imp	lementation Priority:				
Rati	onale:				
Obj	ectives:	Deliverables:			
•	 Acquisition and easements in this The Nature Conservancy focus area Regulate discharge from aquaculture 				
Loca	ation: Cobscock Bay, Maine	Target Species Waterfowl Waterbird	s: Shorebird		
Tim	eline:	Lead Organiza	ation:		
A ~4°	witers A agricition				
ACU	vity: Acquisition				
Partner Organizations:					
Costs:					
Cur	rent Support:				
Unf	unded:				
	ntial Sources: The Nature Conservancy, North Ameram, State Wildlife Grants	erican Wetlands (Conservation Act Grants		

83	Program/Project Name: St. Lawrence Estuary Acquisition		Submitted by: BCR 14 Plan
Imp	lementation Priority:		
Rati	ionale:		
Obj	ectives:	Deliverables:	
	Acquisition to fill gaps in current protection (National Wildlife Areas)		
	ation: Ile Rouge, Batture aux Loups Marins, ouna (St. Lawrence Estuary, Canada)	Black-legged K	Razorbill, Black Guillemot, ittiwake, Virginia Rail, Sora, Night-Heron, waterfowl, lbirds
Tim	eline:	Lead Organiza	ation: Canadian Wildlife
Acti	vity: Acquisition	Service – Queb	ec Region
Part	tner Organizations:	I	
Cos	ts:		
Cur	rent Support:		
Unf	unded:		
Pote	ential Sources:		

84	Program/Project Name: Marshbird, Tern and Shorebird Protection in South Shore Gaspe		Submitted by: BCR 14 Plan			
Imp	Implementation Priority:					
Rat	ionale:					
Wat	Waterbird protection is quite complete but protection for inland waterbirds, shorebird, terns.					
Obj	ectives:	Deliverables:				
•	Protection for inland waterbirds, shorebird, terns					
Loc	ation: Barachois de Malbaie, Douglastown,	Target Specie	s: Black Guillemot, Common			
Cha	ndler, Bonaventure, New Richmond, Pointe a la ix (South Shore Gaspe, Quebec)	Tern, Razorbill legged Kittiwa	l, Great Cormorant, Black- ke, Northern Gannet, Yellow owned Night-Heron, shorebirds			
Tim	neline:	Lead Organiz Service - Queb	ation: Canadian Wildlife			
Act	ivity: Management					
Par	tner Organizations:					
Costs:						
Cur	Current Support:					
Unf	Unfunded:					
Pote	ential Sources:					

	Program/Project Name: Magdalen Islands Acquisition and		Submitted by:		
85	Management		BCR14 Bird Plan		
Imp	lementation Priority:				
Rati	onale:				
Tutt	onuic.				
01.1					
Obj	ectives:	Deliverables:			
	• Acquisition to infill Pointe de l`Est NWA	• Acquis	sition of Havre aux Basques		
	Human management, particularly on beaches	7 requis	itton of Havie aux Basques		
	Bird Rocks, habitat management would				
	increase Gannets (remove buildings)				
Loca	ation: Magdalen Islands, Quebec		s: Northern Gannet, Razorbill,		
			Kittiwake, Black Guillemot,		
			nt, Common Tern, Pied-billed Grebe, Leach's Storm-Petrel,		
			rebirds, landbirds		
Tim	eline:		ation: Canadian Wildlife		
		Service - Queb			
Acti	vity: Acquisition and Management				
D.	0				
Part	ner Organizations:				
Cos	es:				
Cur	rent Support:				
T1 0					
Unf	anded:				
Pote	ntial Sources:				
1000	muai boui ces.				

86	Program/Project Name: St. Lawrence Coast Acqu Stewardship	Submitted by: BCR14 Bird Plan Contact: Al Hanson			
Imp	Implementation Priority:				
Rat	ionale:				
Dev	relopment along the St. Lawrence Coast is increasing				
Obj	ectives:	Deliverables:			
	Acquisition and stewardship of lands necessary for beach and island nesters				
Loc	ation: St. Lawrence Coast, Quebec	Target Species birds, waterfor	es: Colonial seabirds, wading wl, shorebirds		
Tin	neline:	Lead Organiz	zation:		
Act	ivity: Acquisition and Management	_			
Par	tner Organizations:				
Cos	ts:				
Cur	rent Support:				
Unf	unded:				
Pot	ential Sources:				

87	Program/Project Name: St. Margaret's Bay and Mahone Bay Island Acquisition and Stewardship		Submitted by: BCR14 Bird Plan Contact: Andrew Boyne (CWS)	
Imp	lementation Priority:			
	onale:			
Obj	ectives:	Deliverables:		
	Acquisition and stewardship of islands			
	ation: The islands of St. Margaret's Bay and one Bay, NS	Target Species wadingbirds, w	s: Colonial waterbirds, vaterfowl	
Tim	eline: Ongoing	Lead Organiz	ation:	
Acti	vity: Acquisition and Management			
Partner Organizations:				
Costs:				
Cur	rent Support:			
Unf	unded:			
Pote	ential Sources:			

	Program/Project Name: Great Cormorant Monitoring in BCR14		Submitted by:			
88			BCR14 Bird Plan			
00			Contacts: Brad Allen,			
		Andrew Boyne				
Imp	lementation Priority:					
Dati	ionale:					
Kau	ionale:					
01.1						
Obj	ectives:	Deliverables:				
	Deguirement for survivis and general status					
	Requirement for surveys and general status assessment (may just require paper exercise or					
	BNA account may cover)					
	Bivit account may cover)					
Loc	ation: BCR 14	Target Specie	s: Great Cormorant			
- TEN		7 10				
Tim	eline:	Lead Organiz	ation:			
A of	witer Monitorina					
Acu	vity: Monitoring					
Par	tner Organizations:					
Cos	Costs:					
Cur	rent Support:					
Unf	unded:					
_	4.10					
Pote	ential Sources:					

89	Program/Project Name: Seabird Colony Restoration	Submitted by: BCR14 Bird Plan		
Imp	lementation Priority:		I	
Rati	ionale:			
Pote	ential exists for restoration at several sights throughout	it BCR 14.		
01:	4.	D.P. 11		
	ectives:	Deliverables:		
•	Restoration of seabird nesting sites in BCR 14			
Loc	ation: BCR 14	Target Species wadingbirds	s: Colonial seabirds,	
Tim	eline:	Lead Organiz	ation:	
	ivity: Management			
Par	tner Organizations:	<u> </u>		
Control				
Costs:				
Cur	rent Support:			
Unf	unded:			
Pote	ential Sources:			

90	Program/Project Name: Salt Marsh Monitoring 14	Submitted by: BCR14 Bird Plan, Contact: Tom Hodgeman			
Imp	lementation Priority:				
Rati	ionale:				
Obj	ectives:	Deliverables:			
	Develop a Salt Marsh Monitoring Program Develop an Implementation network				
Loc	ation: BCR 14	Target Specie waterfowl, sho	s: Waterbirds, landbirds, prebirds		
Tim	neline:	Lead Organiz Service, Bird S	ation: Canadian Wildlife		
Acti	ivity: Monitoring	Service, Bird S	studies Callada		
Par	tner Organizations:				
Costs:					
Cur	rent Support:				
Unf	unded:				
Pote	ential Sources: CWS, USFWS, USGS, State Wild	llife Grants			

91	91 Program/Project Name: Seabird By-catch and Oil Spill Issues in BCR 14		Submitted by: BCR14 Bird Plan Contacts: John Chardine, Tony Lock	
Imp	lementation Priority:			
Rat	ionale:			
Obj	ectives:	Deliverables:		
	 Need to monitor impact of threats Develop oil spill plans 			
Loc	ation: BCR 14	Target Species seabirds, water	s: Colonial waterbirds, pelagic fowl	
Tim	eline:	Lead Organization Service?	ation: Canadian Wildlife	
Acti	ivity: Monitoring, Management			
Par	tner Organizations:			
Cos	ts:			
Cur	rent Support:			
Unf	unded:			
Pote	ential Sources:			

92	Program/Project Name: Surveys of Birds Wintering in BCR 14		Submitted by: BCR14 Bird Plan, Contacts: Keith McAloney, Dan Bordage		
Imp	lementation Priority:				
Rat	ionale:				
Som	Some surveys are already ongoing but maintenance and increases are necessary.				
Ohi	andi-van	Deliverables:			
Obj	ectives:	Denverables:			
•	Population delineation, breeders to wintering sites				
Loc	ation: BCR 14	Loon, Horned	es: Common Loon, Red-throated Grebe, Red-Necked Grebe, rple Sandpipers		
Tim	eline:	Lead Organiz			
Acti	ivity: Monitoring				
Par	tner Organizations:	<u> </u>			
Cos	Costs:				
Cur	rent Support:				
Unf	unded:				
Pote	ential Sources: CWS, USFWS				

93	Program/Project Name: Coastal Ethics Outreach	and Education	Submitted by: BCR14 Bird Plan
Imp	lementation Priority:		
Rati	ionale:		
Obj	ectives:	Deliverables: • A USFWS	Island Ethics brochure
Loca	ation: BCR 14	Target Species shorebirds	s: Waterbirds, waterfowl,
Tim	eline:	Lead Organiz	ation:
Acti	vity: Education/outreach		
Partner Organizations: Gulf of Maine Expedition			
Cost	ts:		
Cur	rent Support:		
Unf	unded:		
Pote	ential Sources:		

	Program/Project Name: Expand Marine Conservation Education		Submitted by:		
94	in BCR 14		BCR14 Bird Plan		
			Contact: Scott Hall		
Imp	lementation Priority:				
Rat	ionale:				
		T			
Obj	ectives:	Deliverables:			
	**				
•	Use Puffin Project as a model				
Loc	ation: BCR 14		s: Waterbirds, waterfowl.,		
		shorebirds			
7 0°	1.	1 10	4.		
11m	eline:	Lead Organiz	ation:		
Acti	ivity: Education/outreach				
7100	vity: Education/outreach				
Par	tner Organizations:	1			
Costs:					
	4.0				
Cur	rent Support:				
Unf	unded:				
	unucu.				
Pote	ential Sources: State Wildlife Grants				

95	Program/Project Name: Coastal Education Center		Submitted by: BCR14 Bird Plan Contact: Linda Welch
Imp	lementation Priority:		
Rati	ionale:		
Obj	ectives:	Deliverables:	
	Development of a coastal education center		
Loca	ation: BCR 14	Target Species	s: All birds
Tim	eline:	Lead Organiz	ation:
Acti	vity: Education/outreach		
Part	tner Organizations:		
Cost	ts:		
Cur	rent Support:		
Unf	unded:		
Pote	ential Sources:		

96	Program/Project Name: Control Recreation and D BCR 14's Coastal Marshes	evelopment in	Submitted by: BCR14 Bird Plan Contact: Al Hanson
Imp	lementation Priority:		
Rati	ionale:		
Obj	ectives:	Deliverables:	
•	Increase regulatory agency awareness		
Loc	ation: BCR 14 marshes	Target Species waterfowl, land	s: Marshbirds, wadingbirds, dbirds, etc.
Tim	eline:	Lead Organiz	ation:
Acti	vity: Education/outreach		
Partner Organizations: CWS, Gulf of Maine Program, USFWS Refuge Program, USFWS			
Cos	ts:		
Cur	rent Support:		
Unf	unded:		
Pote	ential Sources:		

97	Program/Project Name: Guidelines for Man-made	Wetlands	Submitted by: BCR14 Bird Plan
Imp	lementation Priority:		
Rat	ionale:		
To what extent are man-created wetlands desirable or beneficial to wetland birds in BCR 14? This issue has implications for dam maintenance and re-licensing, and for design, funding, and regulatory review of projects that would create or modify wetlands.			
Obj	ectives:	Deliverables:	
	Develop guidance/recommendations on the importance and management of man-made wetlands.		
Loc	ation: BCR 14	Target Species waterfowl, sho	s: Marshbirds, wadingbirds, rebirds
Tim	neline:	Lead Organiz	ation: Inland Wetland Group
Acti	ivity: Education/outreach and Management		
Par	tner Organizations:		
Cos	ts:		
Cur	rent Support:		
Unf	unded:		
D t	dia of while o		
Pote	ential Sources: State Wildlife Grants		

	Program/Project Name: Guidelines for Beaver-created Wetlands Submitted by:		
98	Program/Project Name: Guidennes for Beaver-cre	eated wetrands	BCR14 Bird Plan
Imp	Implementation Priority:		
Rati	ionale:		
This issue has implications relative to both local and regional beaver management, including removal of "nuisance" dams, and future modifications of trapping regulations.			
Obj	ectives:	Deliverables:	
•	Develop guidance/ recommendations on the importance of beaver-created wetlands to wetland birds in BCR-14		
Loc	ation: BCR 14		s: Marshbirds, wadingbirds, rebirds, landbirds
Tim	eline:	Lead Organiz	ation: Inland Wetland Group
Acti	ivity: Education/outreach, management		
Partner Organizations:			
Costs:			
Current Support:			
Unfunded:			
Pote	ential Sources: State Wildlife Grants		

99	Program/Project Name: Inventories of Inland We	etlands in BCR	Submitted by: BCR14 Bird Plan
Imp	Implementation Priority:		
Rat	ionale:		
The	Greatest need is in Canadian portions of BCR 14.		
Obj	ectives:	Deliverables:	
	Conduct comprehensive inventories to determine distributions and relative abundances of birds of inland wetlands.		
Loc	ation: BCR 14		es: Marshbirds, wadingbirds, orebirds, landbirds
Tim	eline:	Lead Organiz	zation: Inland Wetland Group
Acti	vity: Research and Monitoring		
Par	tner Organizations:		
Cos	ts:		
Cur	rent Support:		
Unf	unded:		
Pote	ential Sources: State Wildlife Grants, CWS, USFW	S, USGS	

100	Program/Project Name: Standardized Inland Wetland Monitoring In BCR 14		Submitted by: BCR14 Bird Plan
Imp	ementation Priority:		
Rati	onale:		
Monitoring should be coordinated and consistent with monitoring protocols and programs for wetland birds in other BCRs and continent-wide.			
Ohio	ativos.	Deliverables:	
Obje	ectives:	Deliverables:	
	mplement standardized, region-wide monitoring of nland wetland bird abundance and distribution.		
Loca	ation: BCR 14		s: Marshbirds, wadingbirds, rebirds, landbirds
Time	eline:	Lead Organiz	ation: Inland Wetland Group
Activ	vity: Monitoring		
Partner Organizations:			
Costs:			
Current Support:			
Unfunded:			
Potential Sources: State Wildlife Grants, CWS, USFWS, USGS			

101	Program/Project Name: Inland Wetland Data Sha	ring in BCR 14	Submitted by: BCR14 Bird Plan	
Impl	ementation Priority:			
	Rationale:			
• II • E a p	Develop mechanisms for data sharing. Ensure that inventory and monitoring data are vailable to help inform and guide conservation programs, including habitat acquisition and nanagement.	Deliverables:		
Loca	tion: BCR 14		s: Marshbirds, wadingbirds, rebirds, landbirds	
Time	eline:	Lead Organiza	ation: Inland Wetland Group	
Activ	vity: Monitoring			
Parti	Partner Organizations:			
Costs:				
Curr	rent Support:			
Unfu	inded:			
Poter	ntial Sources: State Wildlife Grants, CWS,			

102	Program/Project Name: Coordination of Inland V Conservation Efforts Between BCRs	Wetland	Submitted by: BCR14 Bird Plan
Imp	nplementation Priority:		
Rati	onale:		
Pote	ntial threats include wetland loss or modification, ex	otic vegetation, o	lisease, oil spills, and wind
Obje	ectives:	Deliverables:	
1	Coordinate with other BCR's south of BCR 14 to ensure that conservation actions are being taken to reduce threats to inland wetland birds and their nabitats during migration and in winter.		
Loca	ation: BCR 14		es: Marshbirds, wadingbirds, orebirds, landbirds
Tim	eline:	Lead Organiz	zation: Inland Wetland Group
Acti	vity: Education/outreach		
Partner Organizations:			
Cost	s:		
Cur	rent Support:		
Unfu	ınded:		
Pote	ntial Sources:		

103	Program/Project Name: NYC Audubon's Harbor		Submitted by: Yigal Gelb
	Herons Project: Nesting Survey		
Lead Organ	ization:	Partner Organ	nization:
New York Ci	ty Audubon	Parks, Nat. Par	ks Service-Gateway, American
		Littoral Society, Andy Bernick, Wildlife Trust,	
Location:		Target Species	S:
New York H	Wading birds, cormorants, gulls		cormorants, gulls
		_	
General Des	cription: Research	Timeline: 2004	4
	_		

Project Description:

Surveys were conducted annually between mid-May and mid-June at approximately the same dates each year. Islands surveyed included Shooters and Prall's islands and Isle of Meadows in the Arthur Kill-Kill van Kull; Hoffman and Swinburne islands off southern Staten Island; Canarsie Pol and Ruffle Bar in Jamaica Bay; White Island (Salt Marsh Nature Center), Brooklyn; North Brother, South Brother, and U Thant islands and Mill Rock in the East River; Goose Island in the Hutchinson River; and Huckleberry Island in Long Island Sound (Westchester County). At each island, researchers located nests and determined if they were active based on the presence of adults on or near the nest, evidence of fresh construction, and the presence of eggs or nestlings.

Objectives:

- Estimate wading bird breeding population
- Verify breeding location in Harbor
- Gather young/egg data

Deliverables:

• Annual Report - These Reports were produced by various researchers since 1982 (Smith et al. 1982, Parsons 1986-1995, Kerlinger 1996-2004).

Criteria for Measuring Success:

- Accuracy of the count
- Number of Islands surveyed

Project Achievements to Date:

• Annual reports since 1986

Current Support:

Costs:	Unfunded:		
Potential Sources:			
Contact Person:			
Yigal Gelh			

104	Program/Project Name: The Healthy Harbor Herons Project		Submitted by:
Lead Organization: NYC Audubon, Wildlife Trust		Partner Organization: City of New York Parks and Recreation, NYS Department of Environmental Conservation, National Parks Service, College of Staten Island, Columbia University	
Location: New York Harbor and foraging sites in NJ		Target Species: Wading birds	
General Description (research, edu, advocacy, acquisition, citizen science, restoration, management): Research		Timeline: Initiated spring 2004; long-term	

Project Description: The Healthy Harbor Herons Project involves researchers in the collection of baseline health data for wading birds in NY Harbor, as well as birders in data collection of wading bird movement from their breeding grounds to foraging grounds. Toxicity in the environment has been documented to have a negative impact on wading birds. It is possible that toxicity is the cause of the declines of wading birds in NY Harbor. By expanding Parson's studies of the 80's and 90's, the project aims to document the foraging grounds and the levels of contamination. With this knowledge, managers of these areas can improve the water quality to safeguard the health of these magnificent birds.

Objectives:

- Develop methods for health research and bird tagging
- Train a core of volunteer birders to monitor foraging grounds
- Write a report for natural resources managers and advocate for the implementation of its recommendations

Deliverables:

- Report
- Well-trained volunteers ready for future projects

Criteria for Measuring Success:

- Number of volunteers trained each year
- Number of birds banded

Project Achievements to Date:

- Annual Report
- Paper Publication

Current Support: Spring -Summer 2004: \$14,000 NYC Environmental Fund, \$12,000 Hudson River Estuary Grants Program

Costs: \$171,00 total project cost per year Unfunded: \$145,000

Potential Sources: State Wildlife Grant

Contact Person: E.J. McAdams, NYC Audubon. harberherons@yahoo.com, 212 691 7483, Scott Newman, Wildlife Trust.

105	Program/Project Name: NYC Audubon's Harbor Herons Monitoring Program		Submitted by:	
Lead Organization:		Partner Organization:		
New York City Audubon		Castle Oil, Fuj	Castle Oil, Fuji Film, CUNY, American Littoral	
	•	Society		
Location:		Target Species:		
New York Harbor		Wading birds,		
General Description: Citizen Science, education		Timeline: 2005		

Project Description:

NYC Audubon's *Harbor Herons Monitoring Program* (HHMP) promotes stewardship of the New York – New Jersey Estuary through a unique initiative that focuses on the Estuary's long-legged wading birds, the egrets, herons and ibis that are commonly known as the Harbor Herons. The program identifies and maps the foraging grounds of herons, egrets, and ibis nesting in the Estuary using boats, shore monitoring, and aerial surveys. The HHMP uses this information to ensure that foraging areas are protected and conserved.

Objectives:

- Identify flight lines in Harbor
- Identify foraging areas

Deliverables:

• Annual Report and GIS-based database

Criteria for Measuring Success:

- Number of volunteers involved
- Number of hours monitoring
- Number of areas identified accurately

Project Achievements to Date:

• Three reports and a GIS-based database

Current Support:

Costs:	Unfunded:
Potential Sources:	
Contact Person:	

	Program/Project Name: Exploring the Cormorant Controversy	Submitted by:
106		National Audubon
		Society

Implementation Priority: This is primarily a traveling school outreach program, for **grades 5-8**, which takes portions of several days to implement because it involves classroom presentations, research, and a culminating Town Meeting. It uses the illegal killing of 900 double-crested cormorants in Lake Ontario in 1998 as a jumping off point for investigating the 400 years of interaction between the birds and people. It can also be presented as a 2-3 hour **teacher workshop**, at conferences and meetings.

Rationale. There are many examples of human-wildlife interactions that have reached controversial proportions, such as deer or Canada geese invading suburbia, and cormorants eating game fish at popular lakes. This multi-disciplinary program engages students in the ongoing cormorant controversy and teaches them critical thinking skills, which are sadly lacking in much of today's educational settings. Students need to know that ecological issues are complex and involve decades or even centuries of history of human activity, much of which is out of view. Exploring the Cormorant Controversy will allow students the opportunity to jump into a hot button environmental issue and figure out their own answers.

Objectives:

- Learn about why Double-crested Cormorants are unpopular with many sportsmen, and what the real issues are, and why it is easy to blame these birds for the loss of sport fish.
- Develop critical thinking skills so that complex ecological issues are not idly tossed aside with simplistic answers.
- Create an atmosphere where real learning and research can go forward, leading to an informed viewpoint and a comfort level with explaining one's views in public.

Deliverables:

- A well-researched and well-run classroom debate, focusing on whether or not cormorants are to blame for the decrease in game fish, such as smallmouth bass and yellow perch.
- * An understanding of how many environmental and human factors come together to form a controversial social issue.

Location: Northeastern United States

Target Species: Double-crested
Cormorants

Timeline: This program is available to schools during most of the school year.

Activity: Education

Target Species: Double-crested
Cormorants

Lead Organization: Seabird Restoration
Program of the National Audubon Society.

Partner Organizations: Potential partners include various state Audubon Societies, wildlife groups, and local schools.

Costs: This will be specific to how much time is spent at each school, and the location of the school. For example, a school program within an hour of driving from our educator's workplace, that will be visited for three, two and a half hour sessions cost approximately \$800, including mileage, props, handouts, and materials. Many schools would like to have this program presented at their school, but do not have the funds. A grant to Audubon would bring this program to schools in areas where the cormorant controversy is a real world topic.

Current Support: The program has been field tested and presented to a variety of groups, including teachers at workshops and conferences. It is now available where funds are available.

Unfunded:)

Potential Sources: To be determined. (foundations, corporations, etc.)

	Program/Project Name: Mid-Atlantic Monitoring Database		Submitted by:			
107			Manomet Center for			
		Conservation Sciences				
Implement	Implementation Priority:					
Rationale:						
Objectives	:	Deliverables:				
Expand existing regional monitoring database, compiling all state and federal surveys						
Location: Mid-Atlantic/Lower BCR 30		Target Species:				
Timeline: Ongoing		Lead Organization:				
Activity: R	Activity: Research					
Partner O	rganizations:	-				
Costs:						
Current Support:						
Unfunded:						
Potential Sources: State Wildlife Grant						

108	Program/Project Name: Habitat Creation and Restoration Mid-Atlantic – Lower BCR 30 Conservation Projects		Submitted by: Dave Jenkins
100	20 W 2 2 0 2 2 0 0 0 0 2 2 0 2 1 W 3 2 0 0 2 1 W 3 2 0 0 2 1 W 3 2 0 0 2 1 W 3 2 0 0 2 1 W 3 2 0 0 2 1 W 3 2 0 0 2 1 W 3 2 0 0 2 1 W 3 2 0 0 2 1 W 3 2 0 0 2 1 W 3 2 0 0 2 1 W 3 2 0 0 2 1 W 3 2 0 0 2 1 W 3 2 0 0 2 1 W 3 2 0 0 2 1 W 3 2 0 0 2 1 W 3 2 0 0 2 1 W 3 2 0 0 2 1 W 3 2 0 0 2 1 W 3 2 0 2 1 W 3 2 0 0 2 1 W 3 2 0 0 2 1 W 3 2 0 0 2 1 W 3 2 0 0 2 1 W 3 2 0 0 2 1 W 3 2 0 0 2 1 W 3 2 0 0 2 1 W 3 2 0 0 2 1 W 3 2 0 0 2 1 W 3 2 0 0 2 1 W 3 2 0 0 2 1 W 3 2 0 2 1 W 3 2 0 2 1 W 3 2 0 2 1 W 3 2 0 2 1 W 3 2 0 2 1 W 3 2 0 2 1 W 3 2 0 2 1 W 3 2 0 2 1 W 3 2 0 2 1 W 3 2 0 2 1 W 3 2 0 2 1 W 3 2 0 2 1 W 3 2 0 2 1 W 3 2 0 2 1 W 3 2 0 2 1 W 3 2 0 2 1 W 3 2 0 2 1 W 3 2 0 2 1 W 3 2 0 2 1	011 1 1 0 j 0 0 0	
Location: \	Vaterbird Focus Areas (ex. Stone Harbor)	Lead Organization	on:
Partner Or	ganizations:		
Timeline:		Target Species:	
Activity: N	Management		
Objectives:		Benefits/Issues:	
Create and restore breeding & nonbreeding habitat through manipulation, augmentation (ex. human-related predator removal)			
Costs:			
Current Su	pport:		
Unfunded:			
Potential S State Wildli			
State Wildii	ic Oralit		
Implement	ation Priority:		

109	Program/Project Name: Stratto: Management - Gulf of Maine C	n Island Research and Conservation Projects	Submitted by: Scott Hall	
Location: Str	atton Island	Lead Organizati National Audubor		
Partner Orga	nnizations:			
Timeline:	Timeline:		Target Species: Seabirds, Waders	
Activity: Res	search and Management	Seasings, waders		
Objectives:		Benefits/Issues:		
Manage speci Vegetation co	es interactions ntrol and study			
Costs:				
Current Sup	port:			
Unfunded:				
Potential Sou	rces:			
Implementat	ion Priority:			

110	Program/Project Name: Little Duck Island M Gulf of Maine Conservation Projects	lanagement -	Submitted by: Scott Hall		
Tasstiana	Little Deals Jaland	I and Ouronizatio			
Location:	Little Duck Island	Lead Organization National Audubon	on:		
Partner O	rganizations:				
Timeline:		Target Species:			
Activity:					
Objective	s:	Benefits/Issues:			
Costs:					
Current S	Support:				
Unfunded	:				
Potential	Sources:				
Implementation Priority:					

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111	Program/Project Name: Eastern Egg Rock Gulf of Maine Conservation Projects	Management -	Submitted by: Scott Hall
Location:	Eastern Egg Rock	Lead Organization	on:
Partner Or	ganizations:	,	
Timeline:		Target Species:	
Activity:			
Objectives	:	Benefits/Issues:	
Costs:		<u> </u>	
Current Su	ipport:		
TI O			
Unfunded:			
Potential S	ources:		
1 occircus	our ces.		
Implement	ation Priority:		

112	Program/Project Name: Nest Site Acquisition - Southern New England - Long Island Sound Conservation Projects		Submitted by: Jenny Dickson	
112			Jenny Diekson	
Location:		Lead Organization	on:	
Pleasure Beach	1			
Long Beach				
Partner Organ	nizations:			
Timeline:		Target Species: Herons		
Activity:		Marshbirds		
Objectives:		Benefits/Issues:		
Land and water	r conservation			
Costs:		l		
Around \$10 mi	illion			
Current Supp	ort:			
Unfunded:				
Potential Sources:				
rotential Soul	ces.			
Implementation	on Priority:			

113	Program/Project Name: Craney Island - I Lower BCR 30 Conservation Projects	Mid-Atlantic –	Submitted by: Ruth Boettcher	
Location: Po	ortsmouth, VA	Lead Organization	on:	
Partner Org	anizations:			
Timeline: An	nnual	Target Species: Piping Plover, Least Tern		
Activity:				
Objectives:		Benefits/Issues:		
Monitor and manage (create habitat)				
Costs: \$25,000				
Current Sup \$25,000	pport:			
Unfunded:				
Potential Sources:				
Implementa	tion Priority:			

	Program/Project Name: Protection Incen	tives - Mid-	Submitted by:
114	Atlantic – Lower BCR 30 Conservation Projects		Karen Bennett (SWG list)
Location: Middle Island (DE); Mispillion Harbor (DE); South Bowers Beach (DE); Plantation properties on James River; Troy Meadows (NJ) Partner Organizations:		Lead Organization	on:
Timeline:		Target Species:	
Activity: Ma	anagement		
Objectives:		Benefits/Issues:	
	ntives and other methods to create urchase development rights, or acquire land focus areas	nd	
Costs:			
Current Sup	pport:		
Unfunded:			
Potential Sources: State Wildlife Grant			
Implementa	tion Priority:		

	Program/Project Name: Grandview Natu	ure Preserve	Submitted by:	
115	Mid-Atlantic – Lower BCR 30 Conserv	vation Projects Ruth Beck		
Location: Hampton, VA		Lead Organization: Biology - College of William and Mary Ruth Beck		
Partner Orga Hampton Park	nizations: s and Recreation			
Timeline: Long-Term; Breeding Season		Target Species: Least Tern, Common Tern, AMOY		
Activity: Mon	nitoring and Public Outreach			
Objectives:		Benefits/Issues:		
Determine productivity Outreach program for public (recreational, boats, and the PWC) Set up volunteer traning workshops to provide informed and low cost assistance Posting on all 3 islands where birds nest Bring in local/state protection and enforcement agencies Brochure posted		Important area for LETE nesting and very heavily used		
Costs: Weekly/weeke Requires 3 at t	end monitoring (about \$10,000/season) this site	I		
Current Supp	port: State UDGTF provided signs for posting	ng		
Unfunded: Ba	asically and currently unfunded			
Potential Sou Hampton Park Landowners VDGIF	rces: as and Recreation			
Implementati	on Priority:			

116	Program/Project Name: Large Bird Population vs. Public Safety - Mid-Atlantic – Lower BCR 30 Conservation Projects		Submitted by: Ruth Beck
Location: Ha	Location: Hampton Roads Bridge Tunnel Island		on: of William and Mary
Partner Orga	anizations:		
	nnual; Long-Term Monitoring		Common Tern, Gull-billed Tern,
	magement and Adjustment	Laughing Gull, He Benefits/Issues:	erring Gull
Objectives: Determine productivity of waterbirds (BLSK, COTE, GBTE) at man-made island site Determine avian predator controls at this site (we know the detrimental effects on the egg and chick stages of the terns and skimmers) Determine the outside food source for gulls		Substrate for skimmers and terns created and augmented Determined that Black Skimmers are not fledging young (they are not straving? - works on food partitioning and prey availability)	
	t/grad or undergrad student (April-Aug): \$15 quipment upgrade: \$500	500	
Current Sup	port: VDOT provides all substrate needed to	create specific site	S
Unfunded: n	o funds other than what I can earn or have in	local funds at Colle	ege
Potential Sou	irces: VDOT, VA Department of Game, Fish	n & Willdlife, Norfo	olk Foundation
Implementat	tion Priority: need to control avian predators	s at this site	

Program/Project Name: Artificial vs. Natural Nest			Submitted by:		
117	Use - Mid-Atlantic – Lower BCR 30 Co Projects	onservation	Ruth Beck? (SWG list)		
Location:		Lead Organization	on:		
Partner Orga	nizations:				
Timeline:		Target Species:			
Activity: Res	earch	-			
Objectives:		Benefits/Issues:			
Research life h	istory and population effects of vs. natural nest site use				
	vs. natural nest site use				
Costs:					
Current Supp	art.				
Current Supp	ort.				
Unfunded:					
Potential Sou	cces:				
State Wildlife					
Implementati	on Priority:				

	Program/Project Name: New York Marshbird		Submitted by:
118	Monitoring Project - Southern New Island Sound Conservation Projects	England – Long	Dave Adams
Location: NY sta		Lead Organizatio	hn•
Location: IV1 Sta		Dave Adams	,
Partner Organiz	ations:		
Timeline:		Target Species: Rails	
Activity:			
Objectives:		Benefits/Issues:	
Model for other s	tates	Call back CT?	
Costs:			
G	4.		
Current Suppor	:		
Unfunded:			
Potential Source	s:		
Implementation	Priority:		

119	Program/Project Name: Marshbird Inventory - Southern New England - Long Island Sound Conservation Projects		Submitted by: Dave Adams, Jenny Dickson, state reps	
Location:		Lead Organization	nn·	
Location.		University of Con		
		Fordham	neetieut	
Do not no an One		1 Orunani		
Partner Org Coordinate w	amzations: ith PIF			
Timeline:		Target Species:		
Activity: Ma	nagement	Nesting marshbird	ls	
Objectives:		Benefits/Issues:		
Integrate across regions Related species ID key freshwater habitats Costs:				
Current Support:				
Unfunded:				
Potential Sou	irces:			
CCI grant - USFWS to refuges (CT, RI, ME, LIS)				
Implementat	ion Priority:			

	Program/Project Name: New York Loon Monitoring - Southern New England – Long Island Sound Conservation Projects		Submitted by:	
120			Dave Adams	
Location: Adirondacks		Lead Organization	on:	
Partner Organ	izations:			
Timeline:		Target Species: Common Loon		
Activity:		Common Loon		
Objectives:		Benefits/Issues:		
Radar?				
Costs:				
Current Suppo	rt:			
Unfunded:				
omunicu.				
Potential Sources:				
Implementation Priority:				

	Program/Project Name: Long Island South Shore Program - Southern New England – Long Island Sound Conservation Projects		Submitted by:	
121			Dave Adams	
Location:		Lead Organizatio	on:	
		NY State Departm	nent	
Partner O	organizations:			
Nancy We	lch			
Timeline:		Target Species:		
Activity:				
Objective	s:	Benefits/Issues:		
Restoration	n			
Website				
G t				
Costs:				
a				
Current Support:				
Unfunded	:			
Potential Sources:				
Implementation Priority:				

Program/Project Name: Lake Ontai		ventory -	Submitted by: Dave Adams	
122	Southern New England – Long Island So Conservation Projects	uthern New England – Long Island Sound		
Location: La	ocation: Lake Ontario		on:	
Partner Org	ranizations:			
rartiler Org	amzations:			
Timeline:		Target Species: Migratory loons, grebes		
Activity: M	anagement and Education			
Objectives:		Benefits/Issues:		
Costs:				
Cumont Sur	an aut			
Current Sup	oport:			
Unfunded:				
Detential Comment				
Potential Sources:				
Implementation Priority:				
1				

123	Program/Project Name: Tern Integration - Southern New England – Long Island Sound Conservation Projects		Submitted by: Dave Adams	
Location: NY	Y state	Lead Organization	on:	
Partner Org	anizations:			
Timeline:		Target Species:		
Activity:		Common Tern		
Objectives:		Benefits/Issues:		
Integration				
Costs:				
Cooks.				
Current Sup	port:			
Unfunded:				
Potential Sou	Potential Sources:			
Implementation Priority:				

124 Southern New England – Long Island	Program/Project Name: Vegetation Management - Southern New England – Long Island Sound Conservation Projects Submitted by: Sara Williams		
Location:	Lead Organization:		
Partner Organizations:			
Timeline:	Target Species:		
Activity: Management			
Objectives:	Benefits/Issues:		
Demonstration project on refuge	Coastal general management issues		
Costs: State and feds need money			
, and the second			
Current Support:			
Current Support.			
Unfunded:			
Ontunded:			
Potential Sources:			
Implementation Priority:			

	Program/Project Name: State Outreach and Education - Mid-Atlantic – Lower BCR 30 Conservation Projects		Submitted by:	
125			State Non-Game Programs (SWG	
			list)	
Location:		Lead Organization	on:	
Partner Org	anizations:	·L		
Timeline:		Target Species:		
Activity: Ed	ucation	- gr		
	ucation	D 01. 17		
Objectives:		Benefits/Issues:		
Increase capa	bility to minimize abundant and nuisance			
	icts and negative human responses			
Identify state	staff and partners (NGOs)			
Monitor publ	ic perception/behaviors to determine			
	mpending threat (could tie in with			
biological mo				
Costs:				
Current Sup	port:			
Unfunded:				
Omunded:				
Potential Sources:				
State Wildlife Grant				
Implementation Priority:				

Program/Project Name: Eroded nesting si		sites - Southern	Submitted by:	
126	New England – Long Island Sound Conservation Projects		Andrew MacLachlan	
Location:		Lead Organization	on:	
Partner Orga	nizations:			
Timeline:		Target Species:		
Activity:				
Objectives:		Benefits/Issues:		
Costs:				
Current Support:				
Current Supports				
Unfunded:				
Potential Sources:				
Implementation Priority:				

	Program/Project Name: Waterbird Focus Area Enhancement - Mid-Atlantic – Lower BCR 30 Conservation Projects		Submitted by:		
127			Dave Jenkins		
Location:		Lead Organization	on:		
7					
Partner Organ	izations:				
Timeline:		Target Species:			
Activity: Mana	gement				
Objectives:		Benefits/Issues:			
	ain and enhance waterbird focus areas				
using dredged m projects)	naterials (eg. ACOE dredge spoil				
projects)					
G 4					
Costs:					
Current Support:					
Unfunded:					
emunaca.					
Potential Sources:					
State Wildlife Grant					
Implementation Priority:					

	Program/Project Name: Manage/Restore Wild Rice Habitat - Mid-Atlantic – Lower BCR 30 Conservation Projects		Submitted by:	
128			Dave Brinker? (SWG list)	
Location:	-	Lead Organization	on:	
D 4 0	• 4•			
Partner Organ	nizations:			
Timeline:		Target Species: Rails		
Activity: Man	agement	Tunis		
Objectives:		Benefits/Issues:		
Costs:				
Current Support:				
77.0				
Unfunded:				
Potential Sources:				
State Wildlife				
I Same Transfer Stant				
Implementation Priority:				
ampioniona i rollej.				

	Program/Project Name: Productivity and monitoring of secretive wetlands birds in CT - Mid-Atlantic – Lower BCR 30 Conservation Projects		Submitted by:		
129			Min Huang		
Location: CT		Lead Organization	on:		
Partner Orga	nizations:				
		Target Species: Rails			
Activity: Mon	itoring/Research	Kans			
Objectives:		Benefits/Issues:			
Costs:	Contra				
Cosis.					
Current Supp	ort:				
Unfunded:					
Potential Sources:					
Potential Sources:					
Implementation Priority:					